COMBINE OUR ADVANCED CABLE EXPERTISE
WITH YOUR AEROSPACE AND DEFENSE EXCELLENCE
TO BOOST PERFORMANCE : CABLES AND WIRES RANGE

Nexans
BRINGS ENERGY TO LIFE

Summary

NEW GENERATION OF AEROSPACE PLATFORMS REQUIRE SMALLER, LIGHTER AND MORE POWERFUL CABLES

- A comprehensive range of aerospace wires and cable solutions
- Products that are compliant with a range of standards worldwide
- Lighter, smaller, tougher, and more reliable wires and cables
- Abrasion-, arc-tracking-, fire-, and fluid-resistant and low maintenance
- Customized solutions and support for complex and advanced designs

The Nexans product portfolio is comprehensive covering nearly all aerospace requirements. From airframe wires and cables to fire-zone and high-temperature cables, from power feeders to coax, databus, quad Ethernet, optical fiber for IFE and sub-systems. For every application, Nexans has a solution. For special needs, like flexibility, dynamic cut-through resistance, electromagnetic interference resistance, corona resistance, we can supply products customized to specific customer requirements that can be used in various types of harnesses.

COMPREHENSIVE OFFERING

TECHNOLOGY

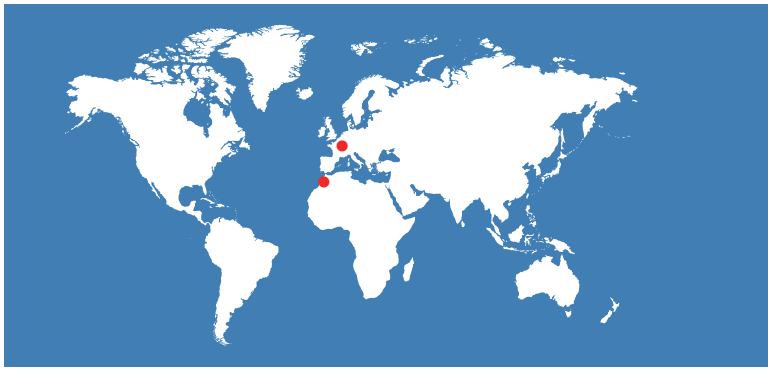
- **Insulation systems:**
  – Composite tape wrap
  – ETFE or FEP extruded
  – PTFE extruded
- **Screen configurations:**
  – round and flat braids
  – semi conductive tapes
  – spiral shields
- **High bit rate technology**
- **New weight saving insulation for coaxial & data bus**

CAPABILITY

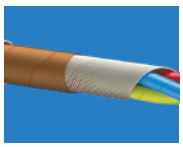
- Design & Prototyping
- Testing & Qualification
- Manufacturing

QUALITY SYSTEMS

- AS9100 / EN9100
- ISO 9001
- ISO 14001



A FULL RANGE OF PRODUCTS AND SOLUTIONS YOU CAN TRUST

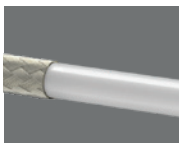


Airframe wires and cables

Cables for power transmission

Fire-zone and high-temperature area cables

Coaxial cables



Databus, quad Ethernet and optical fiber

Customized cables for specific applications

SERVICES SOLUTIONS

Customized kitting

Nexans can propose customized kitting and packaging to its customers, especially for pre-cut power cables. Kits can include other components, according to customer needs and specifications.

Training modules

At the request of OEMs, harness makers and distributors, we provide custom training on our products to explain their specific performance characteristics and benefits.

Resident engineers

If a customer has issues or questions related to wires and cables, we can assign a resident engineer to work with their research department to help them make the right choice, or facilitate acceptance according to design criteria, test information and applicable standards.

Re-design to cost

In a world where size, weight and reliability are of the utmost importance, we can help suppliers, harness makers and OEMs find optimal solutions. For example, we have pioneered the use of aluminum to achieve significant weight reduction.

Dedicated customer portals

While integrating with customer portals, Nexans can also set up dedicated portals to offer customized information according to design, manufacturing and operational needs (including technical data, commercial information, specifications, and billing).

A WORLDWIDE PRESENCE SUPPORTING COMMERCIAL AND MILITARY AEROSPACE MARKETS

Industrial footprints in 2 countries:

- Draveil, France
- Paillart, France
- Mohammedia, Morocco

Guideline for aerospace cables

HOOK-UP WIRES FOR CIVIL, MILITARY AIRCRAFT AND HELICOPTERS

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specification	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
ABS 0949 AD AWG 24 to 4	- Light weight wires - Nickel copper clad aluminium - UV Laser printable		●				●	●				14
ABS 1354, ADB, ADC, ADD	- Light weight wires - Nickel copper clad aluminium		●				●	●	●			16
ABS 1356 VNA, VNB, VNC, VND	- UV laser printable - Nickel copper clad aluminium		●				●	●	●	●	●	18
EN 2267-010 A DR	- UV laser printable - Light weight wires - Composite insulation					●	●	●				20
EN2266-008 DRP - DRT - DRQ	- DR Multicores jacketed - UV Laser printable - Light weight wires				●		●		●		●	22
EN 2267-009 DRB, DRC, DRD	- Light weight wires - Composite insulation					●	●		●			24
EN 2714-013 MLA, MLB, MLC, MLD	- UV laser printable - Light weight wires - Composite insulation					●	●	●	●	●	●	26
EN 2714-014 MME, MMF, MMG	- UV laser printable - Light weight wires - Composite insulation					●	●		●	●	●	28
EN2713-012 MNA - MNB - MNC MND	- DR Multicores - Shielded jacketed - Silver plated screen - UV Laser printable - Light weight wires				●		●	●	●	●	●	30
VG 95218-20 type H FX 5301	- Flexible light weight wires - Silver plated conductors	●					●	●				32
VG 95218-22 type E VG 95218-23 type D FX 5303	- Single core and multicore	●					●	●	●	●	●	34

CABLES FOR POWER TRANSMISSION

Voltage rating: 600 Volts RMS

Specification	Description	Maximum operating temperature				Arc Tracking Resistant	Single Core	Page
		150	180	200	260			
ABS 0949 AD AWG 3 to 000	- Arc tracking resistant - Light weight wires - Nickel aluminium wires		●					38
ABS 1354 ADB, ADC, ADD	- Light weight wires - Nickel copper clad aluminium		●					40
ASNE 0438 YV – ASN E0471 QP	- Flexible nickel plated aluminium wires		●					42
EN 2267-010 A DR	- UV laser printable - Light weight wires - Composite insulation				●	●	●	44
ESW 1000-010-XXX	- Large section - High temperature wire				●			46
FX 5400 DG – VG 95218 20 TYPE J	- High temperature - General purpose				●			48
NSA 935 308 YU	- Flexible aluminium wires - Polyimide insulation	●				●		50
NSA 935 131 DG EN 2854-003	- High temperature - General purpose				●			52
SP 799	- Large section - High temperature wire		●				●	54

NACELLES AND ENGINES: HIGH TEMPERATURE

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specification	Description	Maximum operating temperature				Arc Tracking Resistant	Single core	Multi-core	Screened	Sheathed	Page
		250	260	280	300 +						
9310-N01 9310-N02 9310-N03 AWG 24 & 22	- High temperature wire and cables for engine - Nickel coated Hight strength copper alloy - Composite insulation			●			●	●	●	●	58
BMS 13-58	- High temperature - General purpose - UV laser printable		●				●				64
1050	- Screened cables for high ambiant temperatures	●					●	●	●	●	92
1053	- Screened cables for high ambiant temperatures		●				●	●	●	●	94
2100	- Flexible cables for high ambiant temperatures	●					●				96
2103	- Flexible cables for high ambiant temperatures		●				●				98

Specification	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
10310 N02		- Very high temperature - Fire resistant cable		●			●	●	●	●	60
BMS 13-55 type 2 class 1	–	- High temperature fire resistant wires		●			●				62
BMS 13-67		- Very high temperature - Fire resistant cable				●	●	●	●	●	66
ESW 1202-+++-XXX ESW 1203-+++-XXX	—	- Fire resistant cable		●			●	●	●	●	72
ESW 1250-010-XXX ESW 1251-010-XXX	—	- Fireproof cable		●			●				74
ESW 1252-+++-XXX ESW 1253-+++-XXX	—	- Fireproof cable		●			●	●	●	●	76
ESW 1254-010-002	—	- Fireproof cable		●			●				78
ESW 1254-022-002 ESW 1254-032-002	—	- Fireproof cable - 2 or 3 twisted cores		●				●	●	●	80
ESW 1602-022-XXX	—	- Thermocouple - Fire resistant cable - 2 twisted cores		●			●		●	●	82
TMF MIL-W-25038/1	TMF	- High temperature fire resistant wires		●			●				84
TMF-VR (A)-US x SJ** MIL-W-27500 (JF)		- High temperature fire resistant wires		●			●	●	●	●	86
TMF-VR (A) MIL-W-25038/3	TMF VRA-US TMF VR-US	- High temperature fire resistant wires		●			●				88
STUDY 124585	ET 124 585	- Very high temperature - Fire resistant cable				●	●		●	●	90
EN 4608-004 GPA, GPB, GPC	—	- Fire resistant cable - Light weight cables - UV laser printable		●			●	●	●	●	100
ABS 0053 PL	—	- High temperature - Good mechanical - Electrical performances		●				●			102

COAXIAL CABLES FOR HIGH FREQUENCY TRANSMISSION

For information about MIL-C-17 specifications, see our standard catalogue

Specification	Nexans reference	Description	Maximum operating temperature			Impedance		Maximum operating frequency (MHz)	Maximum operating voltage	Page
			150	200	250	50	75			
ASNE 0293 XF	–	50 ohms		●		●		3000	1400	114
ECS 0745 KC	ET 132954	75 ohms triaxial cable		●			●	3000	500	118
ECS 0757 KE	–	50 ohms triaxial cable		●		●		3000	250	120
EN 4604-003 WZ	–	50 ohms		●		●		3000	1700	130
EN 4604-004 WS	–	50 ohms		●		●		3000	1300	132
EN 4604-005 WL	–	75 ohms		●			●	3000	900	134
EN 4604-006 WM	–	50 ohms		●		●		5000	750	136
EN 4604-007 WN	–	50 ohms		●		●		6000	1000	138
EN 4604-008 WD	–	50 ohms		●		●		8000	1000	140
EN 4604-009 KW	–	50 ohms		●		●		6000	1000	142
EN 4604-010 KX	–	50 ohms		●		●		6000	1000	144
NSA 935 355 XS	–	50 ohms		●		●		10000	3700	148
NSA 935 344 XE	–	50 ohms			●	●		3000	900	150
PAN 6422	–	50 ohms UV laser markable		●		●		1000	From 750 to 3700	152
SP 124962	ET 124962	UV laser miniature	●			●		3000	250	170
SP 124964	ET 124964	UV laser miniature triaxial cable	●			●		3000	250	172
SP 132868	ET 132868	UV laser miniature	●				●	3000	900	176
SP 132869	ET 132869	UV laser miniature triaxial cable	●				●	3000	900	178

DATA BUS AND HIGH SPEED TRANSMISSION CABLES

Voltage rating: from 250 to 750 Volts RMS

Specification	Nexans reference	Description	Maximum operating temperature				Impedance (ohms)				Maximum operating voltage	Page
			125	150	200	260	75	77	100	125		
ABS 0386 WF	ET 96897	Twinaxial cable high immunity			●				●		600	106
ABS 1503 KD 24	ET 2PF870	Shielded quad	●						●		600	110
ASNE 0259 HE	ET 63247			●						●	600	112
SP 69899 ASNE 0811 WY	ET 69899-01 ET 68899-02	Twinaxial cable high immunity			●			●			250	116
EN 3375-005-C WV	ET 133189	Twinaxial cable high immunity			●			●			250	122
EN 3375-006-D ASNE 0290 XM	–				●			●			600	124
EN 3375-007-C WW ECS 0700	ET 132041				●			●			250	126
EN 3375-009-C WX	ET 133199	Twinaxial cable BUS CAN			●						600	128
EN 4608-005-B 002 GPB 24	–	Twinaxial cable Fireproof				●				●	600	146
PAN 6421 ZA 002	ET 65529			●				●			600	154
ASNE 0849 HJ 26	ET 124843	Twinaxial cable high immunity			●		●				600	156
Study 61333	ET 61333	Twinaxial cable high immunity			●		●				600	158
SP 124960	ET 124960			●				●			250	160
SP 96770 ASNE 0479 WJ EN 3375-004B	ET 96770-01 ET 96770-02			●				●			250	162
SP 69794 EN 3375-004-C WJ	ET 69794-01 ET 69794-02	Twinaxial cable high immunity			●			●			600	164
132873	ET 132873	Twinaxial cable Fireproof				●			●		600	166
SP 124961	ET 124961			●				●			250	168

SPECIAL CABLES

For information about MIL-C-17 specifications, see our standard catalogue

Specification	Nexans reference	Description	Maximum operating temperature		Maximum operating voltage	Page
			200	260		
NSA 935 306 YK	ET 86891	Low noise screened pair cable, transmission cable		●	600	196
CAS 250-20P CAS 250-22	ET 87067 ET 87208 ET 87209 ET 87068	Low noise coaxial cable	●		-	198
STUDY 124401	ET 124401	Low noise screened pair cable, transmission cable		●	600	200
ESW 1404-022-006	ET 124762	Low noise screened pair cable, transmission cable		●	600	202
ESW 1405-024-006	ET 132057	Low noise screened pair cable, transmission cable		●	600	204
ECS 0828 MQB	ET 133235	Multipair AWG 24	●		600	206
ECS 0829 MQD	ET 133236	Multipair AWG 24	●		600	206
MBBN YH +++ EN 4049	ET 96532 ET 96533	Thermocouple extension Nickel chromium/nickel aluminium		●	600	208
ASNE0413 HK	–	- Thermocouple Cable - Nickel chromium Nickel aluminium Jacketed, Shielded		●	–	212

OPTICAL CABLES

Maximum operating temperature: 125°C

Specification	Nexans reference	Description	Insulation	Sheath	Page
ABS 0963-003 LF	ET 132126	Multimode fiber optic cable	Zero halogen copolymer, high temperature	Polymer aromatic fiber braid + high temp dual layer compound	108
STUDY 132574	132574	Multimode fiber optic cable	High temperature, copolymer		174

HOOK-UP WIRES

APPLICATION

Hook-up wires are particularly recommanded for the general wiring of the aircraft, including but not limited to, electronic equipments, cabin lights, and in a general manner, to low power energy distribution. Those cable families are designed to work with 115/230 VAC 400Hz tri-phase network and can accept 230/400 VAC 400Hz triphase network in certain conditions. Hook-up wires may also carry some low rate signal in aircraft environment. (cockpit, cabin, wings, etc.).

ADVANTAGES

Nexans is committed to improve safety in aerospace by protecting people and fuselage with arc tracking resistant cables.
Flexible and lighter cables are designed to meet the stringent requirements of our customers during cabling operations.
Our R&D laboratories take a step forward on the resriction of the use of hazardous substances, the DR offer is cadmium free.

MAIN PROPERTIES

- Flame retardant, low smoke and toxicity.
- Very good resistance to aircraft fluids.
- Arc tracking resistant.
- Moisture resistant.
- RoHS compliant.

MAIN CHARACTERISTICS

- Maximum range of operating temperature: −65°C to +260°C.
- Rating voltage: 115/230 VAC 400Hz tri-phase,
  230/400 VAC 400Hz tri-phase.

STANDARDS

The cables are designed to withstand fire tests according to FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3) NFC 32070 C1.
They are conform to various customer specification and/or European Standards "EN" product norms.

ABS 0949 AD AWG 24 to 4

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Nickel Copper Clad Aluminium Alloy Conductors, UV laser printable.

CABLE DESIGN

Conductor

AWG 24 and 22: 1 nickel plated copper alloy wire and + 6 nickel copper clad aluminium alloy wire

AWG 20 to 8: Nickel copper clad aluminium alloy concentric conductor

AWG 6 and 4: Nickel copper clad aluminium alloy rope-lay conductor

Insulation

High performance polyimide tape,
Special UV PTFE tape

IDENTIFICATION

Standard color: Grey

Color of marking: Green for AWG22,
Blue for other gauges

Marking text: AD ** FR F++

** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2014)*

STANDARDS

International prEN 3475

National ABS 0958; ABS 0949 AD

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

Operating temperature
–60°C to +180°C

Arc tracking resistant

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR			FINISHED WIRE				
		Strands (nb x mm)	Diameter (mm)		Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
			Min.	Max.		Min.	Max.	Nom.	Max.
ABS 0949 AD 24	24	7 x 0.20	0.56	0.58	145	0.85	0.96	1.70	1.75
ABS 0949 AD 22	22	7 x 0.25	0.71	0.73	90.2	1.00	1.10	2.37	2.50
ABS 0949 AD 20	20	19 x 0.20	0.94	0.97	49.6	1.22	1.34	3.55	3.65
ABS 0949 AD 18	18	19 x 0.25	1.19	1.22	33.2	1.46	1.61	5.14	5.45
ABS 0949 AD 16	16	19 x 0.30	1.41	1.45	23	1.76	1.92	7.37	7.60
ABS 0949 AD 14	14	37 x 0.25	1.69	1.73	15.5	2.04	2.24	9.91	10.94
ABS 0949 AD 12	12	37 x 0.32	2.13	2.18	10.9	2.50	2.70	14.12	15.10
ABS 0949 AD 10	10	61 x 0.32	2.73	2.77	5.8	3.09	3.33	22.20	24.02
ABS 0949 AD 8	8	7 x 19 x 0.30	3.55	3.85	3.8	4.10	4.40	37.94	39.00
ABS 0949 AD 6	6	7 x 10 x 0.51	4.80	5.20	2.3	5.30	5.70	62.52	63.70
ABS 0949 AD 4	4	7 x 15 x 0.51	5.90	6.30	1.5	6.60	7.40	93.50	96.30

ABS 1354 ADB, ADC, ADD

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Multicores Nickel Copper Clad Aluminium (AWG 24 to 4)
Multicores Aluminium Alloy (AWG 3 to 000).

CABLE DESIGN

Cores

2, 3 or 4 cores ABS 0949 ADA

IDENTIFICATION

Colors of cores:

2 cores (ADB): Red, Blue

3 cores (ADC): Red, Blue, Yellow

4 cores (ADD): Red, Blue, Yellow, Green

Marking colour: Black

Marking text: ADA ** FRF++

** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2014)*

STANDARDS

International prEN 3475

National ABS 0958; ABS 1354

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

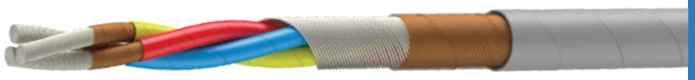
Operating temperature
–65°C to +180°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	Nb of cores	Colors of cores	FINISHED WIRE				
				Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
					Nom.	Max.	Nom.	Max.
ABS 1354 ADB	24	2		149.4	1.78	1.92	3.47	3.61
ABS 1354 ADB	22	2		92.9	2.04	2.20	4.83	5.15
ABS 1354 ADB	20	2		51.1	2.58	2.68	7.24	7.52
ABS 1354 ADB	18	2		34.2	3.08	3.22	10.49	11.23
ABS 1354 ADB	16	2		23.7	3.70	3.84	15.03	15.97
ABS 1354 ADB	14	2		16	4.30	4.48	20.22	22.54
ABS 1354 ADB	12	2		11.2	5.12	5.40	28.80	31.93
ABS 1354 ADB	10	2		6	6.34	6.66	45.29	49.48
ABS 1354 ADB	8	2	1 Red, 1 Blue	3.91	8.58	8.80	77.4	80.34
ABS 1354 ADB	6	2		2.37	11.0	11.40	127.54	131.22
ABS 1354 ADB	4	2		1.55	13.42	14.80	190.74	198.38
ABS 1354 ADB	3	2		1.22	15.02	15.48	186.17	193.64
ABS 1354 ADB	2	2		0.97	16.64	17.14	230.72	239.99
ABS 1354 ADB	1	2		0.77	18.44	19.00	283.91	295.61
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.86
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.80
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	568.56
ABS 1354 ADC	24	3		149.4	1.92	2.06	5.20	5.41
ABS 1354 ADC	22	3		92.9	2.20	2.37	7.25	7.73
ABS 1354 ADC	20	3		51.1	2.78	2.88	10.86	11.28
ABS 1354 ADC	18	3		34.2	3.32	3.46	15.73	16.84
ABS 1354 ADC	16	3		23.7	3.99	4.13	22.55	23.95
ABS 1354 ADC	14	3		16	4.63	4.82	30.32	33.80
ABS 1354 ADC	12	3		11.2	5.52	5.81	43.21	47.90
ABS 1354 ADC	10	3		6	6.83	7.16	67.93	74.22
ABS 1354 ADC	8	3	1 Red, 1 Blue, 1 Yellow	3.91	9.24	9.46	116.10	120.51
ABS 1354 ADC	6	3		2.37	11.85	12.26	191.31	196.83
ABS 1354 ADC	4	3		1.55	14.46	15.91	286.11	297.57
ABS 1354 ADC	3	3		1.22	16.18	16.64	279.26	290.46
ABS 1354 ADC	2	3		0.97	17.93	18.43	346.09	359.99
ABS 1354 ADC	1	3		0.77	19.87	20.43	425.86	443.42
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.29
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	710.70
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	852.84
ABS 1354 ADD	24	4		149.4	2.15	2.30	6.94	7.21
ABS 1354 ADD	22	4		92.9	2.46	2.64	9.67	10.30
ABS 1354 ADD	20	4		51.1	3.11	3.22	14.48	15.04
ABS 1354 ADD	18	4		34.2	3.72	3.86	20.97	22.45
ABS 1354 ADD	16	4		23.7	4.47	4.61	30.07	31.93
ABS 1354 ADD	14	4		16	5.19	5.38	40.43	45.07
ABS 1354 ADD	12	4	1 Red, 1 Blue, 1 Yellow, 1 Green	11.2	6.18	6.48	57.61	63.86
ABS 1354 ADD	10	4		6	7.65	7.99	90.58	98.96
ABS 1354 ADD	8	4		3.91	10.36	10.56	154.8	160.68
ABS 1354 ADD	6	4		2.37	13.28	13.68	255.08	262.44
ABS 1354 ADD	4	4		1.55	16.20	17.76	381.48	396.76
ABS 1354 ADD	3	4		1.22	18.13	18.58	372.34	387.28
ABS 1354 ADD	2	4		0.97	20.08	20.57	461.45	479.98
ABS 1354 ADD	1	4		0.77	22.26	22.80	567.81	591.22



ABS 1356 VNA, VNB, VNC, VND

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Screened and Jacketed Single and Multicores, UV Laser Printable.

CABLE DESIGN

Cores

1, 2, 3 or 4 cores ABS 0949 AD

Screen

Nickel-plated copper spiral screen

Jacket

Polyimide tape, UV PTFE tape

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Colors of cores:

1 core (VNA): Grey

2 cores (VNB): Red, Blue

3 cores (VNC): Red, Blue, Yellow

4 cores (VND): Red, Blue, Yellow, Green

Marking text: ADA ** FRF++

Jacket Identification:

Color of marking: Grey

Marking text: XXX ** FR F++

Color: Green for AWG 22, 18, 14 and 10
Blue for AWG 24, 20, 16 and 12

XXX= *Short designation (VNA, VNB, VNC, VND)*
** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++= *Year of production (i.e. 14 = 2014)*

STANDARDS

International prEN 3475

National ABS 1356

Operating temperature
−65°C to +180°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	Nb of cores	Screen strands nomial diameter (mm)	Colors of cores	Colors of jacket	FINISHED WIRE				
						Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
							Nom.	Max.	Nom.	Max.
ABS 1356 VNA	24	1	0.08	1 Grey	Grey	145	1.38	1.45	4.57	4.80
ABS 1356 VNA	22	1	0.08		Grey	90.2	1.51	1.60	5.58	5.86
ABS 1356 VNA	20	1	0.08		Grey	49.6	1.78	1.87	7.48	7.75
ABS 1356 VNA	18	1	0.08		Grey	33.2	2.03	2.11	9.73	10.40
ABS 1356 VNA	16	1	0.10		Grey	23	2.38	2.48	13.64	14.51
ABS 1356 VNA	14	1	0.10		Grey	15.5	2.68	2.79	17.10	17.96
ABS 1356 VNA	12	1	0.10		Grey	10.9	3.09	3.20	22.56	24.30
ABS 1356 VNA	10	1	0.12		Grey	5.8	3.74	3.89	33.91	36.07
ABS 1356 VNB	24	2	0.08	1 Red, 1 Blue	Grey	149.4	2.27	2.40	7.84	8.15
ABS 1356 VNB	22	2	0.08		Grey	92.9	2.53	2.70	9.77	10.16
ABS 1356 VNB	20	2	0.10		Grey	51.1	3.11	3.27	14.31	14.88
ABS 1356 VNB	18	2	0.10		Grey	34.2	3.61	3.75	18.81	20.20
ABS 1356 VNB	16	2	0.12		Grey	23.7	4.27	4.44	26.26	28.10
ABS 1356 VNB	14	2	0.15		Grey	16.0	4.93	5.13	35.5	37.27
ABS 1356 VNB	12	2	0.20		Grey	11.2	5.85	6.09	51.50	55.78
ABS 1356 VNB	10	2	0.20		Grey	6.0	7.07	7.39	73.05	78.19
ABS 1356 VNC	24	3	0.10	1 Red, 1 Blue, 1 Yellow	Grey	149.4	2.45	2.59	11.14	11.59
ABS 1356 VNC	22	3	0.10		Grey	92.9	2.73	2.91	13.96	14.52
ABS 1356 VNC	20	3	0.12		Grey	51.1	3.35	3.52	20.34	21.15
ABS 1356 VNC	18	3	0.12		Grey	34.2	3.89	4.05	26.89	28.80
ABS 1356 VNC	16	3	0.15		Grey	23.7	4.62	4.80	38.23	40.80
ABS 1356 VNC	14	3	0.15		Grey	16.0	5.26	5.47	48.38	50.80
ABS 1356 VNC	12	3	0.20		Grey	11.2	6.25	6.50	70.04	75.81
ABS 1356 VNC	10	3	0.20		Grey	6.0	7.56	7.90	100.81	107.60
ABS 1356 VND	24	4	0.10	1 Red, 1 Blue, 1 Yellow, 1 Green	Grey	149.4	2.68	2.84	13.74	14.29
ABS 1356 VND	22	4	0.10		Grey	92.9	2.99	3.19	17.37	18.06
ABS 1356 VND	20	4	0.12		Grey	51.1	3.68	3.86	25.38	26.39
ABS 1356 VND	18	4	0.12		Grey	34.2	4.29	4.46	33.83	36.22
ABS 1356 VND	16	4	0.15		Grey	23.7	5.10	5.30	48.14	51.30
ABS 1356 VND	14	4	0.20		Grey	16.0	5.92	6.16	66.67	70.00

EN 2267-010 A DR

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

UV Laser printable Wire
260°C Operating Temperature Light Weight
Arc Tracking Resistant

CABLE DESIGN

Core

Stranded Conductor: Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 2)

Insulation

Special Polyimide Tape,
Special UV PTFE Tape(s)

IDENTIFICATION

Standard color code: White except AWG 26 which is light yellow and AWG 22 which is light green AWG 24 is available in light blue color (EN2267-010A 002B)

Color of marking: green

Marking text: EN DR ** FR F ++

DR = *Short designation*
** = *AWG Wire Size*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 13 = 2013)*

STANDARDS

International EN 2267-010; prEN 3475

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
–55°C to +260°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	Code of nominal section	Color code	AWG	CONDUCTOR				FINISHED CABLE			
				Strands (nb x mm)	Diameter (mm)		Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
					Min.	Max.		Min.	Max.	Nom.	Max.
EN 2267-010A	001	S	26	19 x 0.10	0.47	0.49	160.0	0.75	0.84	1.95	2.08
EN 2267-010A	002	S	24	19 x 0.12	0.555	0.585	114.0	0.85	0.96	2.64	2.72
EN 2267-010A	004	S	22	19 x 0.15	0.71	0.73	60.0	1.00	1.10	3.89	4.14
EN 2267-010A	006	S	20	19 x 0.20	0.94	0.97	33.2	1.22	1.34	6.57	6.85
EN 2267-010A	010	S	18	19 x 0.25	1.19	1.22	21.1	1.46	1.61	10.15	10.43
EN 2267-010A	012	S	16	19 x 0.30	1.41	1.45	14.5	1.76	1.92	14.05	14.61
EN 2267-010A	020	S	14	37 x 0.25	1.69	1.73	10.9	2.04	2.24	19.31	19.78
EN 2267-010A	030	S	12	37 x 0.32	2.13	2.18	6.8	2.50	2.70	29.25	31.33
EN 2267-010A	051	S	10	61 x 0.32	2.73	2.77	4.1	3.13	3.33	47.37	49.85
EN 2267-010A	090	S	8	127 x 0.30	3.55	3.85	2.3	4.10	4.40	87.81	90.00
EN 2267-010A	140	S	6	27 x 7 x 0.30	4.80	5.20	1.58	5.30	5.70	132.41	135.00
EN 2267-010A	220	S	4	37 x 12 x 0.25	–	6.80	0.97	6.71	7.41	215.15	222.00
EN 2267-010A	340	S	2	37 x 19 x 0.25	–	8.60	0.61	8.28	9.16	336.10	347.00

EN 2266-008 DRP, DRT, DRQ

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Multicore cables unshielded and jacketed
200 °C, Light Weight , UV
Arc Tracking Resistant.

CABLE DESIGN

Cores

2, 3 or 4 cores EN2267-009A

Jacket

Polyimide tape, UV Laser Markable, Top coat

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Cores

Colors of marking:
White for Red and Green cores /
Green for Blue, White and Yellow cores

Marking text: EN DRA ** FRF++

Jacket

Color of marking: Green

Marking text: DRx ++ FRF**

DRx = *short designation (DRP, DRT, DRQ)*
++ = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2010)*

STANDARDS

International EN 2267-009; prEN 3475

Operating temperature
–55°C to +200°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

PART NUMBER	Code of nominal section	Color code	AWG	Nb of cores	Colors of cores	Colors of jacket	FINISHED WIRE				
							Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
								Nom.	Max.	Nom.	Max.
DRP 26	001	P	26	2	1 Red, 1 Blue	White	165	1.76	1.86	4.81	5.01
DRP 24	002	P	24	2		Light blue	117	2.02	2.10	6.34	6.54
DRP 22	004	P	22	2		White	61.7	2.30	2.39	9.26	9.47
DRP 20	006	P	20	2		Light blue	34.1	2.80	2.91	14.92	15.28
DRP 18	010	P	18	2		White	21.7	3.28	3.44	22.26	22.90
DRP 16	012	P	16	2		Light blue	14.9	3.85	4.02	30.48	31.78
DRP 14	020	P	14	2		White	11.2	4.53	4.67	41.59	42.61
DRP 12	030	P	12	2		White	6.99	5.34	5.50	63.88	65.82
DRT 26	001	P	26	3	1 Red, 1 Blue, 1 Yellow	White	165	1.87	1.99	6.94	7.28
DRT 24	002	P	24	3		Light blue	117	2.16	2.24	9.21	9.50
DRT 22	004	P	22	3		White	61.7	2.46	2.55	13.56	13.91
DRT 20	006	P	20	3		Light blue	34.1	3.00	3.12	21.96	22.55
DRT 18	010	P	18	3		White	21.7	3.52	3.68	32.91	33.91
DRT 16	012	P	16	3		Light blue	14.9	4.13	4.30	45.16	47.15
DRT 14	020	P	14	3		White	11.2	4.86	5.01	61.72	63.34
DRT 12	030	P	12	3		White	6.99	5.73	5.98	95.05	99.57
DRQ 26	001	P	26	4	1 Red, 1 Blue, 1 Yellow, 1 Green	White	165	2.08	2.22	9.09	9.56
DRQ 24	002	P	24	4		Light Blue	117	2.39	2.49	12.08	12.48
DRQ 22	004	P	22	4		White	61.7	2.73	2.87	17.84	18.34
DRQ 20	006	P	20	4		Light blue	34.1	3.34	3.50	29.00	29.82
DRQ 18	010	P	18	4		White	21.7	3.92	4.15	43.56	44.92
DRQ 16	012	P	16	4		Light blue	14.9	4.60	4.80	59.84	62.52
DRQ 14	020	P	14	4		White	11.2	5.42	5.48	81.85	84.06
DRQ 12	030	P	12	4		White	6.99	6.40	6.61	126.21	129.96

EN 2267-009 DRB, DRC, DRD

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Multicores DRA.

CABLE DESIGN

Cores

2, 3 or 4 cores EN 2267-009A

IDENTIFICATION

Colors of cores: See table in this datasheet

Colors of marking:
White for red and green core,
green for blue and yellow cores

Marking text: EN DRA ** FR F ++

DRA = *short designation*
** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2014)*

STANDARDS

International EN 2267-009; prEN 3475

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

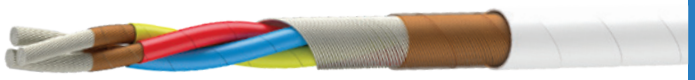
Operating temperature
–55°C to +260°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

PART NUMBER	Code of nominal section	Color code	AWG	Nb of cores	Colors of cores	FINISHED WIRE				
						Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
							Nom.	Max.	Nom.	Max.
DRB 26	001	P	26	2	1 Red, 1 Blue	165	1.56	1.68	3.98	4.28
DRB 24	002	P	24	2		117	1.82	1.92	5.39	5.60
DRB 22	004	P	22	2		61.7	2.10	2.20	7.94	8.53
DRB 20	006	P	20	2		34.1	2.60	2.68	13.40	14.11
DRB 18	010	P	18	2		21.7	3.08	3.22	20.71	21.49
DRB 16	012	P	16	2		14.9	3.66	3.84	28.66	30.10
DRB 14	020	P	14	2		11.2	4.32	4.48	39.39	40.75
DRB 12	030	P	12	2		6.99	5.14	5.40	59.67	64.54
DRB 10	051	P	10	2		4.22	6.42	6.66	96.63	102.69
DRB 8	090	P	8	2		2.37	8.60	8.80	179.13	185.40
DRB 6	140	P	6	2		1.63	11.10	11.40	270.12	278.10
DRB 4	220	P	4	2		1	14.12	14.82	438.91	457.32
DRC 26	001	P	26	3	1 Red, 1 Blue, 1 Yellow	165	1.68	1.81	5.97	6.43
DRC 24	002	P	24	3		117	1.96	2.06	8.08	8.40
DRC 22	004	P	22	3		61.7	2.26	2.37	11.90	12.79
DRC 20	006	P	20	3		34.1	2.80	2.88	20.10	21.17
DRC 18	010	P	18	3		21.7	3.32	3.46	31.06	32.23
DRC 16	012	P	16	3		14.9	3.94	4.13	42.99	45.14
DRC 14	020	P	14	3		11.2	4.65	4.82	59.09	61.12
DRC 12	030	P	12	3		6.99	5.54	5.81	89.50	96.81
DRC 10	051	P	10	3		4.22	6.92	7.16	144.95	154.04
DRC 8	090	P	8	3		2.37	9.27	9.46	268.7	278.10
DRC 6	140	P	6	3		1.63	11.96	12.26	405.17	417.15
DRC 4	220	P	4	3		1	15.21	15.93	658.36	685.98
DRD 26	001	P	26	4	1 Red, 1 Blue, 1 Yellow, 1 Green	165	1.88	2.02	7.96	8.57
DRD 24	002	P	24	4		117	2.20	2.30	10.77	11.21
DRD 22	004	P	22	4		61.7	2.53	2.64	15.87	17.06
DRD 20	006	P	20	4		34.1	3.14	3.22	26.81	28.22
DRD 18	010	P	18	4		21.7	3.72	3.86	41.41	42.97
DRD 16	012	P	16	4		14.9	4.42	4.61	57.32	60.19
DRD 14	020	P	14	4		11.2	5.21	5.38	78.78	81.49
DRD 12	030	P	12	4		6.99	6.20	6.48	119.34	129.08
DRD 10	051	P	10	4		4.22	7.75	7.99	193.27	205.38
DRD 8	090	P	8	4		2.37	10.38	10.56	358.26	370.80
DRD 6	140	P	6	4		1.63	13.40	13.68	540.23	556.20
DRD 4	220	P	4	4		1	17.04	17.78	877.81	914.64



EN 2714-013 MLA, MLB, MLC, MLD

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

260°C, Screened and Jacketed, Light Weight, UV cable, Arc tracking Resistant.

CABLE DESIGN

Cores

1, 2, 3 or 4 cores EN2267-009A

Screen

Nickel plated copper spiral screen

Jacket

Polyimide tape, UV PTFE tape

IDENTIFICATION

Cores

1 core (MLA): White except code 001 : Light Yellow / code 004 : Light Green

2 cores (MLB): Red, Blue

3 cores: Red, Blue, Yellow

4 cores: Red, Blue, Yellow, Green

Marking text: EN DRA ++ FRF **

Color of marking: White for red and green core, Green for blue and yellow core

Jacket

Color: White except code 002, 006, 012 : Light Blue

Marking: EN xxx ++ FRF **

Colour of marking: Green

xxx = *Short designation (MLA, MLB, MLC, MLD)*
++ = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
**= *Year of production (i.e. 14 = 2014)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

STANDARDS

International
EN 2267-009; EN 2714-013; prEN 3475

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

Operating temperature
–55°C to +260°C

Arc tracking resistant

DIMENSIONS AND WEIGHTS

NEXANS REF.	Code of nominal section	Color code	AWG	Screen strands nom. diameter (mm)	Nb of cores	Colors of cores	Colors of jacket	FINISHED WIRE				
								Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
									Nom.	Max.	Nom.	Max.
MLA 26	001	F	26	0.08	1	Light yellow	White	160	1.23	1.31	4.35	4.68
MLA 24	002	F	24	0.08	1	White	Light blue	114	1.36	1.45	5.37	5.76
MLA 22	004	F	22	0.08	1	Light green	White	60	1.50	1.60	6.97	7.51
MLA 20	006	F	20	0.08	1	White	Light blue	33.2	1.75	1.84	10.28	10.77
MLA 18	010	F	18	0.08	1	White	White	21.1	1.99	2.08	14.47	14.97
MLA 16	012	F	16	0.10	1	White	Light blue	14.5	2.32	2.43	19.95	20.97
MLA 14	020	F	14	0.10	1	White	White	10.9	2.65	2.74	26.17	27.03
MLA 12	030	F	12	0.10	1	White	White	6.8	3.06	3.20	37.31	39.70
MLA 10	051	F	10	0.12	1	White	White	4.1	3.74	3.89	58.72	61.94
MLB 26	001	F	26	0.08	2	1 Red, 1 Blue	White	165	2.01	2.13	7.63	8.17
MLB 24	002	F	24	0.08	2		Light blue	117	2.27	2.40	9.58	10.23
MLB 22	004	F	22	0.08	2		White	61.7	2.55	2.70	12.70	13.64
MLB 20	006	F	20	0.10	2		Light blue	34.1	3.09	3.22	20.17	21.05
MLB 18	010	F	18	0.10	2		White	21.7	3.57	3.71	28.62	29.52
MLB 16	012	F	16	0.12	2		Light blue	14.9	4.19	4.38	39.30	41.20
MLB 14	020	F	14	0.15	2		White	11.2	4.91	5.04	54.19	55.83
MLB 12	030	F	12	0.20	2		White	6.99	5.83	6.09	81.80	86.79
MLB 10	051	F	10	0.20	2		White	4.22	7.11	7.39	123.94	130.51
MLC 26	001	F	26	0.08	3	1 Red, 1 Blue, 1 Yellow	White	165	2.13	2.26	10.25	10.94
MLC 24	002	F	24	0.10	3		Light blue	117	2.45	2.59	13.83	14.72
MLC 22	004	F	22	0.10	3		White	61.7	2.75	2.91	18.45	19.76
MLC 20	006	F	20	0.12	3		Light blue	34.1	3.33	3.48	29.23	30.44
MLC 18	010	F	18	0.12	3		White	21.7	3.85	4.00	41.75	42.96
MLC 16	012	F	16	0.15	3		Light blue	14.9	4.53	4.73	57.96	60.67
MLC 14	020	F	14	0.15	3		White	11.2	5.25	5.39	76.59	78.83
MLC 12	030	F	12	0.20	3		White	6.99	6.23	6.5	115.68	122.72
MLC 10	051	F	10	0.20	3		White	4.22	7.61	7.90	177.31	186.69
MLD 26	001	F	26	0.10	4	1 Red, 1 Blue, 1 Yellow, 1 Green	White	165	2.37	2.51	13.69	14.57
MLD 24	002	F	24	0.10	4		Light blue	117	2.69	2.84	17.37	18.47
MLD 22	004	F	22	0.10	4		White	61.7	3.03	3.19	23.4	25.04
MLD 20	006	F	20	0.12	4		Light blue	34.1	3.67	3.82	37.31	38.81
MLD 18	010	F	18	0.12	4		White	21.7	4.25	4.41	53.73	55.22
MLD 16	012	F	16	0.15	4		Light blue	14.9	5.01	5.23	74.58	78.02
MLD 14	020	F	14	0.20	4		White	11.2	5.91	6.06	104.39	107.36

EN 2714-014
MMD, MME, MMF, MMG, MMH, MMJ, MMK

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

260°C, Screened and Jacketed, Light Weight,
UV cable, Arc tracking Resistant.

CABLE DESIGN

Cores

EN 2267-009A, Polyimide tape

Screen

Nickel plated copper braid

Jacket

Polyimide tape, UV PTFE tape

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Short designation

4 cores: MMD

5 cores: MME

6 cores: MMF

7 cores: MMG

8 cores: MMH

9 cores: MMJ

10 cores: MMK

Cores

Colors: See table on this datasheet

MarkingEN DRA ++ FRF **

Color of marking:
White for Black / Red /
Brown / Green and Violet core
Green for Blue / Yellow / White /
Orange / Grey and Light green core"

Jacket

Colors: See table on this datasheet

Marking: EN xxx ++ FRF **

Colour of marking: Green

xxx = *Short designation (MMD, MME...)*
++ = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
**= *Year of production (i.e. 14 = 2014)*

STANDARDS

International
EN 2267-009; EN 2714-014; prEN 3475

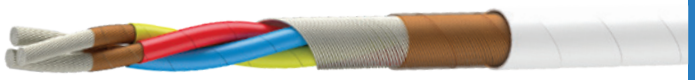
Operating temperature
–55°C to +260°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	Code of nominal section	Color code	AWG	Screen strands nom. diameter (mm)	Nb of cores	Colors of cores	Colors of jacket	FINISHED WIRE				
								Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
									Nom.	Max.	Nom.	Max.
EN 2714-014D	004	F	22	0.10	4	Red, Blue, Yellow, Green	White	61.7	3.28	3.45	26.88	28.23
EN 2714-014D	006	F	20	0.12	4		Light Blue	34.1	3.99	4.19	42.10	44.21
EN 2714-014E	002	F	24	0.10	5	Red, Blue, Yellow, Green, White	Light Blue	117	3.21	3.29	24.79	26.2
EN 2714-014E	004	F	22	0.12	5		White	61.7	3.68	3.87	35.65	37.43
EN 2714-014E	006	F	20	0.12	5		Light Blue	34.1	4.38	4.60	52.80	55.43
EN 2714-014E	010	J	18	0.12	5	White, Blue, Yellow, Red, Green	White	21.7	5.03	5.26	73.22	76.0
EN 2714-014E	012	J	16	0.12	5		Light Blue	14.9	5.82	6.10	97.31	102.2
EN 2714-014E	020	J	14	0.12	5		White	11.2	6.71	7.05	128.62	135.0
EN 2714-014E	030	H	12	0.15	5	Black, Blue, Yellow, Red, Green	Light blue	6.99	7.94	8.41	191.3	205.6
EN 2714-014F	002	F	24	0.12	6	Red, Blue, Yellow, Green, White, Black	Light blue	117	3.56	3.65	31.9	32.2
EN 2714-014F	006	F	20	0.15	6		Light blue	34.1	4.90	5.15	66.17	70
EN 2714-014F	012	F	16	0.15	6		Light blue	14.9	6.45	6.77	120.7	126.7
EN 2714-014G	002	F	24	0.12	7	Red, Blue, Yellow, Green, White, Black, Brown	Light blue	117	3.61	3.80	32.96	34.60
EN 2714-014G	004	F	22	0.12	7		White	61.7	3.99	4.19	44.52	46.75
EN 2714-014H	002	F	24	0.12	8	Red, Blue, Yellow, Green, White, Black, Orange	Light blue	117	4.12	4.37	42.25	42.95
EN 2714-014H	006	F	20	0.15	8		Light blue	34.1	5.69	5.97	88.94	93
EN 2714-014J	004	F	22	0.12	9	Red, Blue, Yellow, Green, White, Black, Orange, Violet	White	61.7	4.63	4.86	55.97	58.77
EN 2714-014K	002	F	24	0.12	10	Red, Blue, Yellow, Green, White, Black, Orange, Violet, Grey	Light blue	117	4.51	4.74	46.43	48.75
EN 2714-014?	004	–	22	0.12	11	Red, Blue, Yellow, Green, White, Black, Orange, Violet, Grey, Light Green	White	61.7	5.21	5.47	68.26	71.67



EN 2713-012 Type MNA, MNB, MNC, MND

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Multicore cables shielded an jacketed
200 °C, Light Weight, UV
Arc Tracking Resistant.

CABLE DESIGN

Cores

1, 2, 3 or 4 cores,EN 2267-009A

Screen

Silver plated copper spiral screen

Jacket

Polyimide tape, UV Laser markable, Top coat

IDENTIFICATION

Cores

Color of cores: See table on this datasheet

Color of marking: White for Red and Green core, Green for Blue, White and Yellow core

Marking text: EN DR A ++ FRF**

Jacket

Color of jacket: See table on this datasheet

Color of marking: Green

Marking text: MNx ++ FRF**

MNx = *Short designation (MNA, MNB, MNC, MND)*
++ = *AWG*
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 10 = 2010)*

STANDARDS

International EN 2267-009; prEN 3475

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

EN 2713-012 Type MNA, MNB, MNC, MND

Operating temperature
–55°C to +200°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REF.	Code of	Color code Nb of cores		AWG	Nom. Screen strands diameter (mm)	Colors of cores	Colors of jacket	FINISHED WIRE				
								Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
									Nom.	Max.	Nom.	Max.
MNA 26	001	F	1	26	0.08	Light yellow	White	160	1.15	1.23	4.01	4.45
MNA 24	002	F	1	24	0.08	White	Light blue	114	1.28	1.35	4.99	5.30
MNA 22	004	F	1	22	0.08	Light green	White	60	1.42	1.49	6.66	7.16
MNA 20	006	F	1	20	0.08	White	Light blue	33.2	1.67	1.73	9.88	10.53
MNA 18	010	F	1	18	0.08	White	White	21.1	1.92	2.00	13.90	14.90
MNA 16	012	F	1	16	0.10	White	Light blue	14.5	2.24	2.35	19.27	20.82
MNA 14	020	F	1	14	0.10	White	White	10.9	2.58	2.66	25.44	26.54
MNA 12	030	F	1	12	0.10	White	White	6.8	2.99	3.13	37.25	39.75
MNA 10	051	F	1	10	0.10	White	White	4.1	3.61	3.76	57.28	60.05
MNB 26	001	F	2	26	0.08		White	165	1.94	2.07	7.15	7.96
MNB 24	002	F	2	24	0.08		Light blue	117	2.20	2.31	9.03	9.61
MNB 22	004	F	2	22	0.08		White	61.7	2.48	2.59	12.33	13.28
MNB 20	006	F	2	20	0.10	1 Red 1 Blue	Light blue	34.1	3.02	3.14	19.61	20.96
MNB 18	010	F	2	18	0.10		White	21.7	3.50	3.65	27.77	29.71
MNB 16	012	F	2	16	0.12		Light blue	14.9	4.11	4.31	38.26	41.29
MNB 14	020	F	2	14	0.12		White	11.2	4.79	4.93	50.73	53.08
MNB 12	030	F	2	12	0.12		White	6.99	5.61	5.83	74.69	78.84
MNC 26	001	F	3	26	0.08		White	165	2.05	2.20	9.69	10.75
MNC 24	002	F	3	24	0.08		Light blue	117	2.34	2.45	12.38	13.17
MNC 22	004	F	3	22	0.08		White	61.7	2.64	2.76	17.17	18.36
MNC 20	006	F	3	20	0.10	1 Red 1 Blue 1 Yellow	Light blue	34.1	3.22	3.35	27.51	29.27
MNC 18	010	F	3	18	0.10		White	21.7	3.73	3.89	39.42	42.02
MNC 16	012	F	3	16	0.12		Light blue	14.9	4.39	4.60	54.37	58.47
MNC 14	020	F	3	14	0.15		White	11.2	5.18	5.33	75.33	78.63
MNC 12	030	F	3	12	0.15		White	6.99	6.14	6.34	112.27	115.71
MND 26	001	F	4	26	0.08		White	165	2.26	2.41	12.24	13.54
MND 24	002	F	4	24	0.08		Light blue	117	2.57	2.70	15.72	16.67
MND 22	004	F	4	22	0.10		White	61.7	2.95	3.08	23.07	24.55
MND 20	006	F	4	20	0.10	1 Red 1 Blue 1 Yellow 1 Green	Light blue	34.1	3.56	3.70	35.40	37.59
MND 18	010	F	4	18	0.12		White	21.7	4.18	4.35	52.61	55.87
MND 16	012	F	4	16	0.12		Light blue	14.9	4.86	5.10	70.47	75.54
MND 14	020	F	4	14	0.15		White	11.2	5.83	6.06	98.75	104.47
MND 12	030	F	4	12	0.15		White	6.99	6.81	7.09	146.12	154.71

FX 5301

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

VG 95218-20 type H
Single wire.

CABLE DESIGN

Conductor

Stranded conductor made of silver plated copper or high strength copper alloy (size 002)

Insulation

PTFE tape, Polyimide tape,
UV laser markable FEP lacquer top coat

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Colors: White (except size 004 in pale blue)

Marking: VG95218T020H **£ F 0241 ++ AC

** = *Dash number*
£ = *color (9=white, A=pale blue*
F0241 = *Manufacturer's cage code*
++ = *Year of production (i.e. 13 = 2013)*
AC = *Cable code according to TR 6058*

STANDARDS

National VG 95218-2; VG 95218-20 H

Operating temperature
–65°C to +150°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

VG REFERENCES	NEXANS REFERENCES	Dash number (VG)	Size code	AWG	CONDUCTOR			FINISHED WIRE			
					Strands (nb x mm)	Diameter (mm)		Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)
						Nom.	Max.		Min.	Max.	
VG 95218T020H019	FX 5301-002	01	002	24	19 x 0.12	0.55	0.62	106	0.98	1.08	3.23
VG 95218T020H02A	FX 5301-004	02	004	22	19 x 0.15	0.70	0.80	55.3	1.12	1.24	4.59
VG 95218T020H039	FX 5301-006	03	006	20	19 x 0.20	0.94	1.04	31	1.33	1.47	7.29
VG 95218T020H049	FX 5301-010	04	010	18	19 x 0.25	1.18	1.29	19.6	1.58	1.72	10.69
VG 95218T020H059	FX 5301-012	05	012	16	19 x 0.30	1.39	1.53	13.6	1.81	1.97	14.86
VG 95218T020H069	FX 5301-020	06	020	14	37 x 0.25	1.68	1.82	10.2	2.07	2.19	19.43
VG 95218T020H079	FX 5301-030	07	030	12	37 x 0.32	2.12	2.28	6.4	2.53	2.69	30.83

FX 5303

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

VG 95218-22 type E
Single core shielded and jacketed.
VG 95218-23 type D
Multicore shielded and jacketed.

CABLE DESIGN

Core

FX 5301

Screen

Silver plated copper braided screen

Jacket

Polyimide tapes,UV laser markable
FEP lacquer, top coat

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Single core shielded and jacketed (type E)

Core color: White
(with exception of size 004: Pale Blue)

Marking on Jacket: White
(with exception of size 004: Pale Blue)

Marking: VG95218T022E*** F 0241 ++ GE

Multicore shielded and jacketed (type D)

Core Identification: White
(except size 004: Pale Blue)

Marking: with colored arabic digits printed on the core and a dash placed under-neath it.:
Core number 1: digit = 1
Core number 2: digit = 2, a.s.o.

Marking on Jacket

Colors of marking: White
(with exception of size 004: Pale Blue)

Marking: VG95218T023D*** F 0241 ++ ##

*** = *Dash number (VG)*
F0241 = *Manufacturer's cage code*
++ = *Year of production (i.e. 08 = 2008)*
= *Cable code according to TR 6058:*
GF = 2 cores – GG = 3 cores – GH = 4 cores

STANDARDS

National VG 95218-2; VG 95218-22 E

Operating temperature
–65°C to +150°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

VG REFERENCES	NEXANS REFERENCES	Nb of cores	Dash number (VG)	Size code	AWG	FINISHED WIRE				
						Ø of screen strands (mm)	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Weight Max. (g/m)
VG 95218T022E001	FX 5303-1-002	1	001	002	24	0.08	106	1.52	1.68	7.04
VG 95218T022E002	FX 5303-1-004	1	002	004	22	0.08	55.3	1.66	1.85	8.85
VG 95218T022E003	FX 5303-1-006	1	003	006	20	0.08	31	1.87	2.08	12.2
VG 95218T022E004	FX 5303-1-010	1	004	010	18	0.10	19.6	2.21	2.39	17.56
VG 95218T022E005	FX 5303-1-012	1	005	012	16	0.10	13.6	2.44	2.64	22.59
VG 95218T022E006	FX 5303-1-020	1	006	020	14	0.10	10.2	2.70	2.86	27.94
VG 95218T022E007	FX 5303-1-030	1	007	030	12	0.10	6.4	3.16	3.36	41.06
VG 95218T023D001	FX 5303-2-002	2	001	002	24	0.08	109.2	2.47	2.73	12.27
VG 95218T023D002	FX 5303-2-004	2	002	004	22	0.08	57	2.76	3.05	15.77
VG 95218T023D003	FX 5303-2-006	2	003	006	20	0.10	31.9	3.25	3.59	23.97
VG 95218T023D004	FX 5303-2-010	2	004	010	18	0.10	30.2	3.76	4.08	32.29
VG 95218T023D005	FX 5303-2-012	2	005	012	16	0.10	14.0	4.22	4.58	42.20
VG 95218T023D006	FX 5303-2-020	2	006	020	14	0.10	10.5	4.73	5.03	52.81
VG 95218T023D007	FX 5303-2-030	2	007	030	12	0.10	6.6	5.66	6.02	78.85
VG 95218T023D008	FX 5303-3-002	3	008	002	24	0.08	109.2	2.61	2.89	16.44
VG 95218T023D009	FX 5303-3-004	3	009	004	22	0.08	57	2.93	3.23	21.45
VG 95218T023D010	FX 5303-3-006	3	010	006	20	0.10	31.9	3.45	3.81	32.85
VG 95218T023D011	FX 5303-3-010	3	011	010	18	0.10	30.2	4.00	4.34	44.90
VG 95218T023D012	FX 5303-3-012	3	012	012	16	0.10	14.0	4.50	4.88	59.32
VG 95218T023D013	FX 5303-3-020	3	013	020	14	0.10	10.5	5.04	5.36	74.82
VG 95218T023D014	FX 5303-3-030	3	014	030	12	0.10	6.6	6.05	6.43	113.00
VG 95218T023D015	FX 5303-4-002	4	015	002	24	0.08	109.2	2.86	3.16	20.61
VG 95218T023D016	FX 5303-4-004	4	016	004	22	0.08	57	3.20	3.54	27.13
VG 95218T023D017	FX 5303-4-006	4	017	006	20	0.10	31.9	3.78	4.18	41.74
VG 95218T023D018	FX 5303-4-010	4	018	010	18	0.10	30.2	4.41	4.77	57.51
VG 95218T023D019	FX 5303-4-012	4	019	012	16	0.10	14.0	4.96	5.38	76.43
VG 95218T023D020	FX 5303-4-020	4	020	020	14	0.10	10.5	5.58	5.92	96.83
VG 95218T023D021	FX 5303-4-030	4	021	030	12	0.10	6.6	6.69	7.11	147.14

POWER DISTRIBUTION

APPLICATION

Power distribution cables are designed to make the link between generators to distribution cabinet, and thus to carry high currents, up to several hundreds of amperes. Those cable families are designed to work with 115/230 VAC 400Hz tri-phase network and can accept 230/400 VAC 400Hz triphase network in certain conditions.

ADVANTAGES

Nexans is commited to improve safety in aerospace by designing robust and/or lightweight power feeders. Flexibilty and cable handling are also athe core of this cable familly.

MAIN PROPERTIES

- Very good resistance to aircraft fluids
- Flame retardant
- RoHS compliant

MAIN CHARACTERISTICS

- Maximum range of operating temperature: −65°C to +260°C.
- Rating voltage: 115/230 VAC 400Hz tri-phase,
  230/400 VAC 400Hz tri-phase.

STANDARDS

The cables are designed to withstand fire tests according to FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3) NFC 32070 C1.
They are conform to various customer specification and/or European Standards "EN" product norms.

ABS 0949 AD AWG 3 to 000

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Nickel Platted Aluminium Alloy Conductors
UV laser printable.

CABLE DESIGN

Conductor

Nickel plated aluminium rope-lay conductor

Insulation

High performance polyimide tape,
Special UV PTFE tape

IDENTIFICATION

Standard color: Grey

Color of marking: Blue

Marking text: AD ** FR F++

** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2014)*

STANDARDS

International prEN 3475

National ABS 0958; ABS 0949 AD

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

Operating temperature
–60°C to +180°C

Arc tracking resistant

RoHS

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	AWG	CONDUCTOR				FINISHED CABLE			
		Strands (nb x mm)	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Diameter (mm)		Weight (g/m)	
				Min.	Max.	Min.	Max.	Nom.	Max.
ABS 0949 AD 3	3	7 x 19 x 0.51	1.18	6.5	7.1	7.28	7.74	91.26	94.00
ABS 0949 AD 2	2	7 x 24 x 0.51	0.94	7.4	8.0	8.07	8.57	113.1	116.5
ABS 0949 AD 1	1	7 x 30 x 0.51	0.75	8.3	8.9	8.94	9.50	139.17	143.5
ABS 0949 AD 0	0	19 x 14 x 0.51	0.60	9.7	10.3	10.29	10.93	175.81	181.0
ABS 0949 AD 00	00	19 x 18 x 0.51	0.43	11.1	11.7	11.65	12.37	222.96	230.0
ABS 0949 AD 000	000	19 x 22 x 0.51	0.36	12.4	13	12.91	13.71	267.57	276.0

ABS 1354 ADB, ADC, ADD

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Multicores Nickel Copper Clad Aluminium (AWG 24 to 4)
Multicores Aluminium Alloy (AWG 3 to 000).

CABLE DESIGN

Conductor

2, 3 or 4 cores ABS 0949 ADA

IDENTIFICATION

2 cores (ADB): Red, Blue

3 cores (ADC): Red, Blue, Yellow

4 cores (ADD): Red, Blue, Yellow, Green

Color of marking: Black

Marking text: ADA ** FRF++

** = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++= *Year of production (i.e. 14 = 2014)»*

STANDARDS

International prEN 3475

National ABS 0958; ABS 1354

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

Operating temperature
−65°C to +180°C

Arc tracking resistant

RoHS

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	AWG	Nb of cores	FINISHED CABLE					
			Colors of cores	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
					Nom.	Max.	Nom.	Max.
ABS 1354 ADB	24	2	1 red, 1 blue	149.4	1.78	1.92	3.47	3.61
ABS 1354 ADB	22	2		92.9	2.04	2.20	4.83	5.15
ABS 1354 ADB	20	2		51.1	2.58	2.68	7.24	7.52
ABS 1354 ADB	18	2		34.2	3.08	3.22	10.49	11.23
ABS 1354 ADB	16	2		23.7	3.70	3.84	15.03	15.97
ABS 1354 ADB	14	2		16	4.30	4.48	20.22	22.54
ABS 1354 ADB	12	2		11.2	5.12	5.40	28.80	31.93
ABS 1354 ADB	10	2		6	6.34	6.66	45.29	49.48
ABS 1354 ADB	8	2		3.91	8.58	8.80	77.4	80.34
ABS 1354 ADB	6	2		2.37	11.0	11.40	127.54	131.22
ABS 1354 ADB	4	2		1.55	13.42	14.80	190.74	198.38
ABS 1354 ADB	3	2		1.22	15.02	15.48	186.17	193.64
ABS 1354 ADB	2	2		0.97	16.64	17.14	230.72	239.99
ABS 1354 ADB	1	2		0.77	18.44	19.00	283.91	295.61
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.86
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.80
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	568.56
ABS 1354 ADC	24	3	1 red, 1 blue, 1 yellow	149.4	1.92	2.06	5.20	5.41
ABS 1354 ADC	22	3		92.9	2.20	2.37	7.25	7.73
ABS 1354 ADC	20	3		51.1	2.78	2.88	10.86	11.28
ABS 1354 ADC	18	3		34.2	3.32	3.46	15.73	16.84
ABS 1354 ADC	16	3		23.7	3.99	4.13	22.55	23.95
ABS 1354 ADC	14	3		16	4.63	4.82	30.32	33.80
ABS 1354 ADC	12	3		11.2	5.52	5.81	43.21	47.90
ABS 1354 ADC	10	3		6	6.83	7.16	67.93	74.22
ABS 1354 ADC	8	3		3.91	9.24	9.46	116.10	120.51
ABS 1354 ADC	6	3		2.37	11.85	12.26	191.31	196.83
ABS 1354 ADC	4	3		1.55	14.46	15.91	286.11	297.57
ABS 1354 ADC	3	3		1.22	16.18	16.64	279.26	290.46
ABS 1354 ADC	2	3		0.97	17.93	18.43	346.09	359.99
ABS 1354 ADC	1	3		0.77	19.87	20.43	425.86	443.42
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.29
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	710.70
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	852.84
ABS 1354 ADD	24	4	1 red, 1 blue, 1 yellow, 1 green	149.4	2.15	2.30	6.94	7.21
ABS 1354 ADD	22	4		92.9	2.46	2.64	9.67	10.30
ABS 1354 ADD	20	4		51.1	3.11	3.22	14.48	15.04
ABS 1354 ADD	18	4		34.2	3.72	3.86	20.97	22.45
ABS 1354 ADD	16	4		23.7	4.47	4.61	30.07	31.93
ABS 1354 ADD	14	4		16	5.19	5.38	40.43	45.07
ABS 1354 ADD	12	4		11.2	6.18	6.48	57.61	63.86
ABS 1354 ADD	10	4		6	7.65	7.99	90.58	98.96
ABS 1354 ADD	8	4		3.91	10.36	10.56	154.8	160.68
ABS 1354 ADD	6	4		2.37	13.28	13.68	255.08	262.44
ABS 1354 ADD	4	4		1.55	16.20	17.76	381.48	396.76
ABS 1354 ADD	3	4		1.22	18.13	18.58	372.34	387.28
ABS 1354 ADD	2	4		0.97	20.08	20.57	461.45	479.98
ABS 1354 ADD	1	4		0.77	22.26	22.80	567.81	591.22

ASNE 0438 YV – ASNE 0471 QP

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

180°C Operating Temperature (up to 200°C Peak)
Flexible Nickel Plated Aluminium Light Weight
Wires Single Core Large Sizes

SINGLE CORE (ASNE0438 YV)
Product designed according to: ASNE0438.

CABLE DESIGN

SINGLE CORE (ASNE0438 YV)
Product designed according to : ASNE0438

Conductor

A Stranded Conductor Made of Nickel Plated Aluminium

Insulation

Polyimide Tapes

External protection

An Aromatic Polyamide Braid Impregnated with a Non Flammable Varnish

MULTICORE (ASNE0471 QP)
Product designed according to : ASNE0471

Assembly

3 cores ASNE0438 YV twisted

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

By colored threads between polyimide tapes and external braid

1, 2 or 3 threads for manufacturer:
i.e. Black + Grey = Nexans

2 threads for year of manufacturing:
i.e. Black + Pink = 2017

By colored carrier in the external Aromatic Polyamide braid: 1 black carrier for wires Size AWG 06, 03, 01, 00 and 0000

Additionnal identification for multicore (QP)

By colored carrier in the external Aromatic Polyamide braid: 1 core with red carrier,1 core with blue carrier, 1 core with yellow carrier

STANDARDS

International NSA 307110; NSA 935000

Operating temperature
–55°C to +180°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	AWG	CONDUCTOR				FINISHED CABLE		
		Strands (nb x mm)	Diameter (mm)	Nb of strands missing allowed	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
ASNE0438 YV								
YV 06	6	7 x10 x 0.51	5.0 ±0.25	0	2.20	5.8	6.4	55
YV 04	4	7 x 15 x 0.51	6.1 ±0.30	0	1.50	6.9	7.5	77
YV 03	3	7 x 19 x 0.51	6.8 ±0.30	0	1.18	8.0	8.4	96
YV 02	2	7 x 24 x 0.51	7.7 ±0.30	2	0.94	8.6	9.2	119
YV 01	1	7 x 30 x 0.51	8.6 ±0.30	2	0.75	9.5	10.1	149
YV 0A	0	19 x 14 x 0.51	10.0 ±0.30	3	0.60	10.8	11.6	186
YV 00	00	19 x 18 x 0.51	11.4 ±0.30	3	0.43	12.2	13.2	240
YV 000 (*)	000	19 x 22 x 0.51	12.7 ±0.30	4	0.36	13.3	14.5	290
YV 0000 (*)	0000	37 x 15 x 0.51	14.25 ±0.35	5	0.29	15.1	16.3	370
ASNE0471 QP		COMPOSITION						
QP 06	6	3 x YV 06 twisted			2.27	–	13.8	170
QP 04	4	3 x YV 04 twisted			1.55	–	16.1	238
QP 03	3	3 x YV 03 twisted			1.22	–	18.1	297
QP 02	2	3 x YV 02 twisted			0.97	–	19.8	368
QP 01	1	3 x YV 01 twisted			0.77	–	21.7	460
QP 0A	0	3 x YV 0A twisted			0.62	–	24.9	575
QP 00	00	3 x YV 00 twisted			0.44	–	28.4	742

(*) AWG not defined in ASN specification, values obtained by extension with defined construction

YV QP

EN 2267-010 A DR

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

UV Laser printable Wire
260°C Operating Temperature Light Weight
Arc Tracking Resistant

CABLE DESIGN

Core

Stranded Conductor: Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 2)

Insulation

Special Polyimide Tape,
Special UV PTFE Tape(s)

IDENTIFICATION

Standard color code: White except AWG 26 which is light yellow and AWG 22 which is light green AWG 24 is available in light blue color (EN2267-010A 002B)

Color of marking: green

Marking text: EN DR ** FR F ++

DR = *Short designation*
** = *AWG Wire Size*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 13 = 2013)*

STANDARDS

International EN 2267-010; prEN 3475

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
–55°C to +260°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	Code of nominal section	Color code	AWG	CONDUCTOR				FINISHED CABLE			
				Strands (nb x mm)	Diameter (mm)		Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
					Min.	Max.		Min.	Max.	Nom.	Max.
EN 2267-010A	001	S	26	19 x 0.10	0.47	0.49	160.0	0.75	0.84	1.95	2.08
EN 2267-010A	002	S	24	19 x 0.12	0.555	0.585	114.0	0.85	0.96	2.64	2.72
EN 2267-010A	004	S	22	19 x 0.15	0.71	0.73	60.0	1.00	1.10	3.89	4.14
EN 2267-010A	006	S	20	19 x 0.20	0.94	0.97	33.2	1.22	1.34	6.57	6.85
EN 2267-010A	010	S	16	19 x 0.25	1.19	1.22	21.1	1.46	1.61	10.15	10.43
EN 2267-010A	012	S	18	19 x 0.30	1.41	1.45	14.5	1.76	1.92	14.05	14.61
EN 2267-010A	020	S	14	37 x 0.25	1.69	1.73	10.9	2.04	2.24	19.31	19.78
EN 2267-010A	030	S	12	37 x 0.32	2.13	2.18	6.8	2.50	2.70	29.25	31.33
EN 2267-010A	051	S	10	61 x 0.32	2.73	2.77	4.1	3.13	3.33	47.37	49.85
EN 2267-010A	090	S	8	127 x 0.30	3.55	3.85	2.3	4.10	4.40	87.81	90.00
EN 2267-010A	140	S	6	27 x 7 x 0.30	4.80	5.20	1.58	5.30	5.70	132.41	135.00
EN 2267-010A	220	S	4	37 x 12 x 0.25	–	6.80	0.97	6.71	7.41	215.15	222.00
EN 2267-010A	340	S	2	37 x 19 x 0.25	–	8.60	0.61	8.28	9.16	336.10	347.00

ESW 1000-010-XXX

Oil resistance
Very good resistance to aircraft fluids

Areo engine services.

Large Section High Temperature Cable.

CABLE DESIGN

Cores

A Stranded Conductor Made of Nickel Plated Copper

Insulation

Polyimide Tape,
PTFE Tapes,
PTFE Coated Fiberglass tape,
PTFE Tapes

IDENTIFICATION

Color of cable: White

Color of marking: Green

Marking text: ESW1000-010-xxx-FX-FF-**

xxx = *Size Code,*
** = *Year of manufacturing*

STANDARDS

National ESW 1000-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	CONDUCTOR				FINISHED WIRE OR CABLE		
		Strands (m x n x diameter in mm)	Max. Diameter (mm)	Max. Nb of Strands	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Nom.	Diameter (mm) Max.	Max. Weight (g/m)
ESW1000-010-090	8	127 x 0.30	4.5	127	2.30	*	6.25	108
ESW1000-010-140	6	27 x 7 x 0.30	5.6	189	1.58	*	7.30	160
ESW1000-010-220	4	37 x 12 x 0.25	7.3	444	0.97	9.24	9.30	245
ESW1000-010-340	2	37 x 19 x 0.25	8.8	703	0.61	10.93	11.30	420
ESW1000-010-420	1	37 x 23 x 0.25	10.0	851	0.51	*	12.40	500
ESW1000-010-530	0	37 x 29 x 0.25	11.3	1073	0.40	12.55	13.15	630
ESW1000-010-680	00	37 x 37 x 0.25	12.5	1369	0.32	14.20	14.45	800
ESW1000-010-850	000	48 x 36 x 0.25	14.4	1728	0.25	15.58	16.05	1010
ESW1000-010-107	0000	61 x 36 x 0.25	15.9	2196	0.20	17.22	17.55	1270

** To be defined*

FX 5400 DG – VG 95218-20 TYPE J

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

Single wire.

CABLE DESIGN

Conductor

Stranded conductor, Made of Nickel Plated Copper

Insulation

Polyimide Tape,
PTFE Tape,
Glass fiber tape,
PTFE Tape

IDENTIFICATION

Color: White

Marking text: VG 95218T020J ** £ F 0241 ++ DG

** = *Dash number*
£ = *Color (9: white)*
F 0241 = *Manufacturer's cage code*
++ = *Year of production (i.e. 14 = 2014)*
DG = *Cable code according to TR 6058*

STANDARDS

National VG 95218-2; VG 95218-20

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
–55°C to +260°C

Arc tracking resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part1 (3)

DIMENSIONS AND WEIGHTS

VG REFERENCES	NEXANS REFERENCES	Dash number (VG)	Size code	AWG	CONDUCTOR		FINISHED WIRE			
					Strands (nb x mm)	Max.	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
VG 95218T020J019	FX 5400-050	019	050	10	73 x 0.30	3.3	3.9	4.1	4.5	64.5
VG 95218T020J029	FX 5400-090	029	090	8	127 x 0.30	4.5	2.3	5.2	5.6	108
VG 95218T020J039	FX 5400-140	039	140	6	27 x 7 x 0.30	5.6	1.6	6.3	7.3	160
VG 95218T020J049	FX 5400-220	049	220	4	37 x 12 x 0.25	7.3	0.97	8.1	9.3	245
VG 95218T020J059	FX 5400-340	059	340	2	37 x 19 x 0.25	8.8	0.61	9.7	10.9	396
VG 95218T020J069	FX 5400-420	069	420	1	37 x 23 x 0.25	10.0	0.50	10.6	12.1	470
VG 95218T020J079	FX 5400-530	079	530	0	37 x 29 x 0.25	11.3	0.40	11.8	13.4	600
VG 95218T020J089	FX 5400-680	089	680	00	37 x 37 x 0.25	12.5	0.31	13.6	14.5	750
VG 95218T020J099	FX 5400-850	099	850	000	48 x 36 x 0.25	14.4	0.25	15.6	16.8	950
VG 95218T020J109	FX 5400-107	109	107	0000	61 x 36 x 0.25	15.9	0.20	17.0	18.4	1200

NSA 935 308 YU

Oil resistance
Very good resistance to aircraft fluids

150°C Operating Temperature.
Flexible Aluminium Alloy Conductor.
Single Core Large Sizes.

CABLE DESIGN

Conductor

Stranded ConductorMade of Aluminium Alloy

Insulation

3 polyimide tapes

External protection

An Aromatic Polyamide Braid Impregnated with a Non Flammable Varnish

IDENTIFICATION

By colored threads between polyimide tapes and external braid:

Manufacturer colour: Black + Grey = Nexans
Manufacturing year: Blue + Brown = 2014

STANDARDS

International NSA 307110;
NSA 935000; NSA 935308 YU

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−55°C to +150°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	AWG	Stranding Number x Diam. of strands (mm)	CONDUCTOR			FINISHED CABLE		
			Diameter (mm)	Nb of strands missing allowed	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		Max. Weight (g/m)
						Min.	Max.	
YU 12 (*)	12	45 x 0,30	2.4 ± 0.20	0	10	3.2	3.45	16.5
YU 10 (*)	10	27 x 0,51	2.9 ± 0.20	0	5.8	3.6	4.0	26
YU 8 (*)	8	41 x 0,51	3.7 ± 0.20	0	3.8	4.4	4.8	35
YU 6 (*)	6	7 x 10 x 0,51	5.0 ± 0.25	0	2.20	5.7	6.3	55
YU 4	4	7 x 15 x 0,51	6.1 ± 0.30	0	1.50	6.8	7.4	84
YU 3 (*)	3	7 x 19 x 0,51	6.8 ± 0.30	0	1.18	7.7	8.1	96
YU 2 (*)	2	7 x 24 x 0,51	7.7 ± 0.30	2	0.94	8.4	9.0	120
YU 1 (*)	1	7 x 30 x 0,51	8.6 ± 0.30	2	0.75	9.3	9.9	149
YU 0	0	19 x 14 x 0,51	10.0 ± 0.30	3	0.66	10.7	11.5	199
YU 00	00	19 x 18 x 0,51	11.4 ± 0.30	3	0.43	12.1	13.1	256
YU 000	000	19 x 22 x 0,51	12.7 ± 0.30	4	0.36	13.3	14.5	309
YU 0000	0000	37 x 15 x 0,51	14.45 ± 0.35	5	0.29	15.1	16.3	390

(*) AWG not defined in NSA specification, values obtained by extension with defined construction

NSA 935 131 – EN 2854-003 DG

Oil resistance
Very good resistance to aircraft fluids

Aircraft wire.

260°C Operating High Temperature

CABLE DESIGN

Core

Stranded conductor Nickel Plated Copper

Insulation

Polyimide tape,
PTFE tape(s),
Glass fiber tape,
PTFE tape(s)

IDENTIFICATION

Color: white

Marking text: DG ** FR F ++

** = *AWG Wire Size*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
++ = *Year of production (i.e. 14 = 2014)*

STANDARDS

International EN 2854-003; NSA 935131

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
–55°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	Nominal section (mm^2)	AWG	CONDUCTOR		FINISHED CABLE			
			Strands (nb x mm)	Max. Diameter (mm)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)	Max. DC Resistance at 20°C (Ω/km)
NSA 935 131 DG 10	5.15	10	73 x 0.30	3.3	4.1	4.5	64.5	3.9
NSA 935 131 DG 8	8.98	8	127 x 0.30	4.5	5.2	5.6	108	2.3
NSA 935 131 DG 6	13.4	6	27 x 7 x 0.30	5.6	6.3	7.3	160	1.6
NSA 935 131 DG 4	21.8	4	37 x 12 x 0.25	7.3	8.1	9.3	245	0.97
NSA 935 131 DG 2	34.5	2	37 x 19 x 0.25	8.8	9.7	10.9	396	0.61
NSA 935 131 DG 1	41.8	1	37 x 23 x 0.25	10.0	10.6	12.1	470	0.50
NSA 935 131 DG 0	52.7	0	37 x 29 x 0.25	11.3	11.8	13.4	600	0.40
NSA 935 131 DG 00	67.2	00	37 x 37 x 0.25	12.5	13.6	14.5	750	0.31
NSA 935 131 DG 000	84.8	000	48 x 36 x 0.25	14.4	15.6	16.8	950	0.25
NSA 935 131 DG 0000	107.8	0000	61 x 36 x 0.25	15.9	17.0	18.4	1200	0.20

SP 799

Oil resistance
Very good resistance to aircraft fluids

Areo engine services.

180 °C Operating Temperature, Nickel Plated Aluminium.
Power Feeder Cables.

CABLE DESIGN

Cores

A Stranded conductor,
Made of Nickel Plated Aluminium

Insulation

Polyimide Tape,
PTFE Tapes,
PTFE Coated Fiberglass tape,
PTFE Tapes

IDENTIFICATION

Color of cable: White

Color of marking: Green

Marking text: Et xxxxxx FRF++

xxxxxx = *Study number*
++ = *Year of manufacturing*

STANDARDS

National ESW 1000-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +180°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Cross section (mm²)	CONDUCTOR				FINISHED CABLE		
			Strand m x n x diameter (mm)	Max. Diameter (mm)	Nb of missing single strands	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
Study 133401	3	27.2	133 x 0.51	7.1	0	1.18	8.90	10.60	161
Study 133010	2	34.3	168 x 0.51	8.0	2	0.94	9.80	11.40	190
Study 133011	1	42.9	210 x 0.51	8.9	2	0.75	10.60	12.20	210
Study 133012	0	54.3	266 x 0.51	10.3	3	0.60	11.75	13.35	260
Study 132877	00	69.9	342 x 0.51	11.7	3	0.43	12.85	14.45	300
Study 133013	000	85.4	418 x 0.51	13.0	4	0.36	14.70	16.30	380
Study 132878	0000	110.3	540 x 0.51	14.8	5	0.29	16.50	18.10	470

PRODUCTION ACCEPTANCE TEST

JES 292, Annex C, Ref	Title	Remarks
JES 292	Ohmic resistance	*See table I*
001	Visual examination	
002	Examination of dimension and mass	*See table I*
003	Mechanical properties of conductor or strand	
050	High voltage dry impulse	

QUALIFICATION TEST

JES 292, Annex C, Ref	Title	No. of samples per cable size	Remarks
001	Visual examination	2	
002	Examination of dimension and mass	1	*See table I*
003	Mechanical properties of conductor (tensile strength only)	2	*Tensile strength of each individual strand > 105 MPa*
007	Notch propagation resistance test	1	*Mandrel 22 times diameter of cable*
008	Resistance to fluids	14	*RT Bend Test to ref. 062 of this Table*
010	Torsion test (delamination)	1	*T1 = 180 ±5°C, T2 = 230 ±5°C*
011	Identification durability	1	*Test temperature 20 ±5°C, Min. cycles 100, Applied Force 2.0N*
013	Fluid wicking	1	*1% max weight increase*
017	Color fastness to light	3	
018	Climatic cycle	3	
024	Delamination and shrinkage	2	*Max shrinkage – One half of max outside diameter. Time 6 hours at 230 ±5°C*
025	Flame resistance test	1	*Time to flame extinction 15 seconds*
050	High voltage test	3	*Immersion: 2500 ±75 V rms, Dry impulse: 8000 ±250 V peak*
051	Insulation resistance	1	
052	Surface resistance	2	
061	Accelerated ageing	1	*Conduct at 230 ±3°C*
062	Room temp bend test	2	Size / Mandrel Diameter / Tension (N) 340 / 22 x max OD / 70 420 / 22 x max OD / 70 530 / 22 x max OD / 120 680 / 22 x max OD / 120 850 / 22 x max OD / 150 107 / 22 x max OD / 150
066	High temp cyclic endurance	2	*T1 = 180 ±5°C, T2 = 230 ±5°C*

AVIONICS & COAXIAL CABLES

APPLICATION

This range of products' aim is to address the current need of the market interms of variety of solutions. The wide range of proposed impedances allow to find a product fitting in the various aboard systems.
Nexans develops an increasing offer of IFE and optical cables to complete the "data cables" familly.
Some of our products are adapted for a brandwith up to 8 GHz.

ADVANTAGES

Lower diameter and a better bendability, together with bandwith and data rate enhancement : our cables are designed to meet the stringest requirements of our consumers.

MAIN PROPERTIES

- Flame retardant, low smoke and toxicity.
- Very good resistance to aircraft fluids.
- Moisture resistant.
- RoHS compliant.

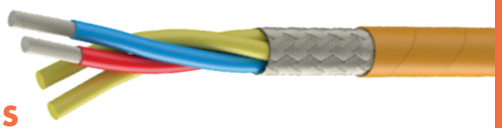
MAIN CHARACTERISTICS

- Maximum range of operating temperature: −65°C to +260°C.
- Impedance, capacitance, transmission characteristics.
- Transfer impedance.

STANDARDS

The cables are designed to withstand fire tests according to
FAR/JAR part 25 sec 25.869 (a)
(4) Appendix F part 1 (3)
NFC 32070 C1.
They are conform to various customer specification and/or European Standards "EN" product norms.

AVIONICS & COAXIAL CABLES



ABS 0386 WF

Oil resistance
Very good resistance to aircraft fluids

Data bus cable application.

100 Ohms, AWG 24 Shielded Pair.

CABLE DESIGN

Conductor

Nickel plated copper alloy, PTFE insulation

Assembly

2 cores twisted with 2 fiber glass fillers

Braid

Nickel plated copper shield

Jacket

Polyimide tapes

IDENTIFICATION

Color of cores: Light Blue, Red

Color of jacket: Amber

Marking tape under jacket: WF 24 FR F

** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Characteristic impedance	100 ± 10 Ω at 5 MHz
Maximum capacitance	60 pF/m
Attenuation	0.03 dB/m at 1 MHz 0.06 dB/m at 5 MHz 0.12 dB/m at 10 MHz

Temperature
Operating
–55°C to +200°C

Bend radius installed
min. 25 mm

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR				INSULATION		BRAID		FINISHED CABLE		
		Composition N x d (mm)	Diameter (mm)		Max. Ohmic resistance at 20°C (Ω/km)	Diameter (mm)		Diameter (mm)		Overall diameter (mm)		Weight Max. (g/m)
			Nom.	Max.		Nom.	Max.	Strand	Nom.	Nom.	Max.	
STUDY 96897	24	19 x 0.12	0.59	0.62	117.5	1.4	1.5	0.08	3.12	3.30	3.50	23.4

ABS 0963-003 LF

Optical fibres and hybrids (optical + electrical) in harsh environment.

With these high mechanical, chemical and optical properties, this cable has been designed for harsh environments such as: aeronautics, geophysics, space, missile, chemical industry.

CABLE DESIGN

Optical fiber

Core, cladding, coating

Silica/Silica/Silicone type 62.5/125/400 µm

Primary jacket

Copolymer zero halogen

high temperature = 0.90 ± 0.05 mm

Mechanical strength

Polymer aromatic fiber braid

Outer jacket

Copolymer zero halogen high temperature

= 1.50 mm (for info.)

+ ETFE = 1.80 ± 0.1 mm

IDENTIFICATION

None

STANDARDS

International EN 4641-100

National ABS 0963-003 LF

CONNECTION

Stripping of primary jacket, buffer and coating.

Mechanical stripping is used, we highly recommend :

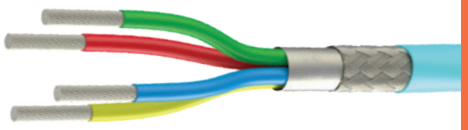
- To strip directly from primary jacket to silica.
- To carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent , take care to avoid contact between solvent and other part of the cable such as strength members, silicone and jacket.

KEY FEATURES

Mechanical properties	High temperature High tensile resistance High flexibility Low weight Small diameter Low bending radius Easy strippability
Optical properties	High bandwidth Low cost ferrules (Telecom components)
Chemical properties	High chemical resistance to on board fluids Very low smoke and toxicity (according to ABD0031 chart 1) Flamability : non flammable
Minimum bend radius	Storage > 40 mm Long term > 20 mm Short term (installation) > 12 mm
Maximum pulling force	Long term: 10 daN Short term: 25 daN
Tensile strength	> 100 daN
Nominal weight	< 4 kg/km
Maximum attenuation at 20°C	4 dB/km at 850 nm 2 dB/km at 1310 nm
Effective index of refraction	1.4970 at 850 nm 1.4919 at 1310 nm
Numerical aperture	0.275 ± 0.015
Cable Bandwidth (MHz. km)	> 400 at 850 nm > 1000 at 1310 nm
Operating temperature	Long term: -55 to +125°C Peak: -65 to 150°C



ABS 1503 KD 24

Oil resistance
Very good resistance to aircraft fluids

High speed data transmission – Ethernet networks – 100 Mbit/s and in-flight entertainment application.

100 Ohms, AWG 24 Shielded Quad.

CABLE DESIGN

Conductor

Silver copper stranded, FEP insulated

Assembly

4 cores + 1 FEP filler with wrapping tape

Braid

Silver Copper shield

Jacket

Clear Blue FEP for UV laser marking

IDENTIFICATION

Color of cores: Blue, Red, Yellow, Green

Inkjet marking pitch length: ≈ 300 mm

Pitch length between the two next marking: ≈ 150 mm

Marking tape under jacket: AB KD 24 FR F**

** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Loop resistance at 20°C	max. 19.2 Ω/100 m
Insulation resistance at 20°C	1500 MΩ.km
Impedance	100 Ω ± 15 Ω from 1 to 100 MHz
Velocity of propagation	≥ 70%
N.E.X.T.	> 68 15 x log (F) dB from 1 to 100 MHz
Attenuation	2.1 dB/100m at 1 MHz 4.1 dB/100m at 4 MHz 6.5 dB/100m at 10 MHz 8.2 dB/100m at 16 MHz 9.3 dB/100m at 20 MHz 11.7 dB/100m at 31.25 MHz 17 dB/100m at 62.5 MHz 22 dB/100m at 100 MHz

Temperature
Operating: **−55°C to +125°C**
Storage: **−55°C to +200°C**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		BRAID		FINISHED CABLE		
		Composition N x d (mm)	Max. Ohmic resistance at 20°C (Ω/km)	Diameter (mm)		Diameter Strand (mm)	Diameter (mm)	Overall diameter (mm)		Nom. Weight (g/m)
				Min.	Max.			Min.	Max.	
ABS 1503 KD 24	24	19 x 0.13	192	1.35	1.45	0.10	3.90	4.20	4.60	40.28

ASNE 0259 HE 24

Oil resistance
Good

Data bus for aeronautic applications.

125 Ohms, AWG 24 Single braid Polyimide jacket.

CABLE DESIGN

Conductor

Silver plated, high strength copper alloy,
Extruded PTFE insulation

Assembly

2 cores

Braid

Nickel plated copper shield

Jacket

Polyimide tape(s)

IDENTIFICATION

Color of cores: White, Brown

Color of jacket: Natural

STANDARDS

Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage withstanding	1500 V between conductors 1500 V between conductor and shield
Characteristic impedance	125 Ω ± 10%
Mutual capacitance	40 pF/m
Attenuation	2.5 dB/100m at 500 kHz 3.1 dB/100m at 1 MHz

Temperature
Operating: **−55°C to +150°C**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		BRAID	FINISHED CABLE	
		Composition N x d (mm)	Max. Ohmic resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Diameter Strand (mm)	Overall	Nom. Weight (g/m)
ASNE0259 HE 24	24	19 x 0.12	97.2	1.94	2.00	0.10	4.50	27

ASNE 0293 XF

Oil resistance
Very good resistance to aircraft fluids

Avionic interconnexion applications.

50 Ohms, Coaxial Cable.

CABLE DESIGN

Conductor

Silver plated copper

Insulation

Extruded PTFE

Braid

Dual Silver plated copper shield

Jacket

FEP

IDENTIFICATION

Color of jacket: Brown

External sheath: Green marking

Marking tape under jacket: XF FR F**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Filotex®)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

Customer specification,

US Military Specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Operating frequency	up to 10 GHz
Maximum ohmic resistance of conductor	29.6 Ω/km
Characteristic impedance	50 ± 2 Ω
Nominal linear capacitance	95 pF/m at 1KHz
Nominal velocity of propagation	208 500 km/s (69.5%)

ATTENUATION AND POWER HANDLING

Frequency (MHz)	**Max. Rated Power at 40°C** (W)	**Mean Attenuation at 20°C** (dB/100m)
10	3300	4.3
200	660	19
400	450	28
3000	150	95
10000	80	210

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

Temperature
Operating: **−65°C to +200°C**

Bend radius installed
min. 50 mm

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR	INSULATION	BRAID		FINISHED CABLE	
	Composition N x d (mm)	Diameter Nom. (mm)	Diameter (mm)		Diameter Max. (mm)	Nom. Weight (g/m)
			Strand	Overall		
ASNE0293 XF	19 x 0.20	2.95	0.13	4.06	5.08	67

SP 69899 – ASNE 0811 WY

Oil resistance
Good

Bus lines for multiplexed transmission.

Use for bus system MIL STD 1553.
77 Ohms, AWG 26 Shielded Pair.

CABLE DESIGN

Conductor

Silver plated copper alloy (EN2083)

Insulation

Extruded PTFE

Assembly

2 cores + 2 PTFE fillers

Shield

Silver plated copper 10/100

Jacket

FEP

IDENTIFICATION

Color of cores: White, Blue

Color of jacket: White

Marking tape
under jacket: FILOTEX FRANCE ET 69899**

** = *Year of manufacturing (ie. 14 = 2014)*

Red marking for the main line:
(Nexans reference = ETUDE 6989901)

Blue marking for the branch line:
(Nexans reference = ETUDE 6989902)

STANDARDS

National ASNE 0811 WY

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V
Voltage withstanding	1000 V between conductors 1000 V between conductors and shield
Jacket sperk test	5000 V
Insulation resistance	≥ 1500 MΩ.km
Characteristic impedance	77 ± 7Ω at 1 MHz
Nominal mutual capacitance	65 pF/m
Nominal capacitance	110 pF/m between 1 core and shield 180 pF/m between cores and shield
Nominal attenuation	3.5 dB/100 m at 1 MHz
Maximum transfer impedance	50 mΩ/m DC current 50 mΩ/m at 1 MHz 50 mΩ/m at 10 MHz 100 mΩ/m at 30 MHz

Temperature
Operating:
–65°C to
+200°C

Static operating bending
radius **min. 15 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		BRAID	
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Min. (mm)	Diameter Max. (mm)	Diameter strand (mm)	Diameter Max. (mm)
SP 69899	26	19 x 0.10	146	0.75	0.85	0.10	2

FINISHED CABLE		
Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
2.40	2.60	19

ECS 0745 KC

Oil resistance
Very good resistance to aircraft fluids

Designed for radio frequency signal transmission in aircraft radio communication systems.

75 Ohms, Triaxial Cable.

CABLE DESIGN

Conductor
Strands of high strength, Silver plated copper alloy

Insulation
Fluorocarbon

Braid
Silver plated copper double shield

Inner jacket
Fluorocarbon

Shield
Silver plated copper

Outer jacket
Fluorocarbon

IDENTIFICATION
Inner Jacket color: Blue

Outer Jacket color: Blue

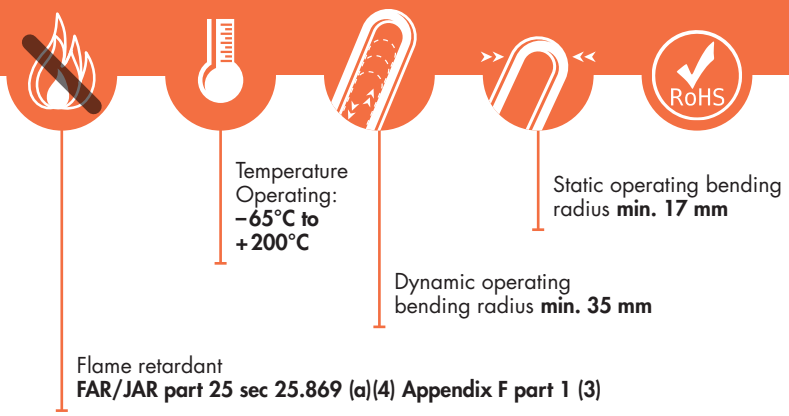
Marking text: KC FR F**

** = *Year of manufacturing*

STANDARDS
Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Dry test voltage between core and shield	2000 VAC
Inner and outer jacket dry impulse test	5000 V
Maximum operating voltage	500 VRMS
Operating frequency	up to 3 GHz
Maximum ohmic resistance of conductor	384 Ω/km
Insulation resistance	≥ 5000 MOhms.km between conductor and shield ≥ 1500 MOhms.km between shields
Characteristic impedance	75 ± 5 Ω
Maximum linear capacitance	60 pF/m at 1KHz
Transfer impedance	≤ 15 mOhms/m up to 100 MHz
Velocity of propagation	≥ 222 000 km/s (74% relative)



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	BRAID		INNER JACKET	SHIELD	FINISHED CABLE	
	Composition N x d (mm)	Diameter (mm)	Max. Diameter (mm)	Diameter (mm) Strand	Diameter (mm) Max.	Max. Diameter (mm)	Strands Diameter (mm)	Diameter (mm)	Max. Weight (g/m)
ECS 0745 KC	7 x 0.10	0.30 ±0.025	1.30	0.08	1.95	2.37	0.10	3.40 ±0.10	27

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power at 40°C (W)	Max. Attenuation at 20°C (dB/100m)
10	640	10
50	290	23
100	200	30
200	140	43
300	110	53
400	100	63
1000	65	102
3000	37	176

ECS 0757 KE

Oil resistance
Good

Miniature Triaxial Cable.

CABLE DESIGN

Conductor
Silver plated copper alloy

Insulation
PTFE

Shield
Silver plated copper 10/100

Inner jacket
FEP

Shield
Silver plated copper 10/100

Outer jacket
FEP

Strippability
Mechanical device or automatic stripper

IDENTIFICATION
Inner and outer jacket color: transparent green with a marker tape placed beneath the outer jacket

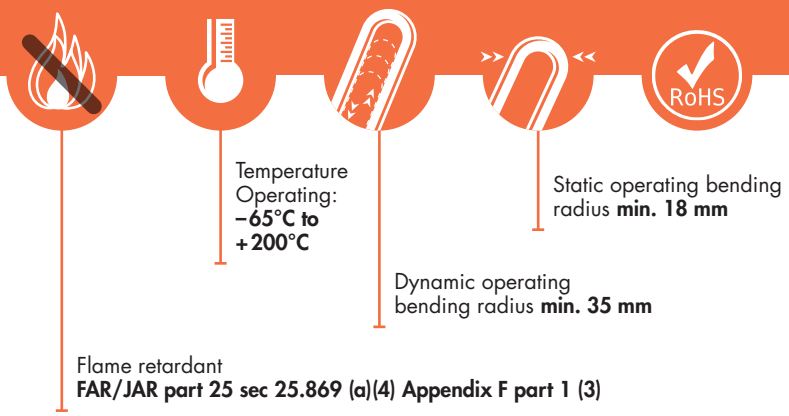
Marking text: KE FR F**

** = *Year of manufacturing*

STANDARDS
Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Dry test voltage between core and shield	2000 VAC
Inner and outer jacket dry impulse test	5000 V
Maximum operating voltage	900 VRMS
Operating frequency	up to 1.5 GHz
Maximum ohmic resistance of conductor	124 Ω/km
Insulation resistance	≥ 5000 MOhms.km between conductor and shield ≥ 1500 MOhms.km between shields
Characteristic impedance	50 ± 2 Ω
Maximum linear capacitance	105 pF/m at 1KHz
Nominal velocity of propagation	208 500 km/s (69.5%)

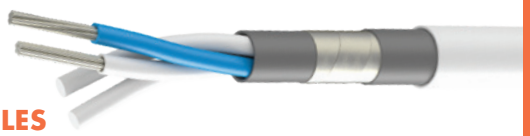


DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	SHIELD	
	Composition N x d (mm)	Diameter Nom. (mm)	Diameter (mm)	Diameter Nom. (mm)	Coverage (%)
ECS 0757 KE	7 x 0.175	0.53	1.52 ± 0.08	1.98	≥ 65

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power at 40°C (W)	Max. Attenuation at 20°C (dB/100m)
10	1400	9.5
100	430	35
200	300	49
500	190	77
1000	130	108
1500	110	133



EN 3375-005C WV

Oil resistance
Very good resistance to aircraft fluids

Data bus cable for multiplexed transmission.

77 Ohms, AWG 24 PairDouble Shielded High temperature.

CABLE DESIGN

Conductor

Silver plated high strength copper alloy

Fluoropolymer insulation

Assembly

2 cores twisted with 2 fillers

Braid

Silver plated copper shield

Jacket

Fluoropolymer UV laser markable

IDENTIFICATION

Color of cores: Blue, White

Color of Jacket: White

JACKET CODE "NONE"

Color of marking: Green

Marking text: EN WV 24 FRF**

JACKET CODE "C01"

Color of marking: Red for the main line

Marking text: EN WV R24 FRF**

JACKET CODE "C02"

Color of marking: Blue for the branch line

Marking text: EN WV B24 FRF**

** = *Year of manufacturing (i.e 14 = 2014)*

STANDARDS

International EN 3375-005

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VAC
Characteristic impedance	77 ± 7Ω at 1 MHz
Maximum capacitance	78 pF/m
Maximum attenuation	3.6 dB/100m at 1 MHz
Maximum transfert impedance	15 mΩ/m DC 0.025 mΩ/m at 1 MHz 0.025 mΩ/m at 10 MHz 0.1 mΩ/m at 30 MHz

Temperature
Operating:
−65°C to
+200°C

Static operating bending
radius **min. 40 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR				INSULATION		SHIELD	
		Composition N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ω/km) Max.	Diameter (mm)		Diameter (mm)	
			Nom.	Max.		Nom.	Max.	Strand	Max.
133189	24	19 x 0.12	0.59	0.62	109	1.05	1.30	0.10	3.75

FINISHED CABLE		
Overall diameter Nom. (mm)	Overall diameter Max. (mm)	Weight Max. (g/m)
3.85	4.10	43.3

EN 3375-006D XM

Oil resistance
Very good resistance to aircraft fluids

Data bus cable for aeronautic applications. Compatible RS 422.

78 Ohms, AWG 24 Shielded Pair High temperature.

CABLE DESIGN

Conductor

Silver plated high strength copper alloy

Fluoropolymer insulation

Assembly

2 cores twisted

Braid

Nickel plated copper shield

Jacket

Polyimide Tapes

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Impedance	78 ±7Ω from 1 to 200 MHz
Mutual capacitance	64 pF/m ± 10%
Maximum attenuation	0.035 dB/m at 1 MHz 0.15 dB/m at 10 MHz

IDENTIFICATION

Color of cores: Light Blue, Red

Color of Jacket: Natural

Color of marking: Black

Marking tape under jacket: XM 24 FRF**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Filotex®)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 3375-006

Temperature
Operating:
–55°C to
+200°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS	AWG	CONDUCTOR				INSULATION		SHIELD	FINISHED CABLE	
		Composition N x d (mm)	Diameter (mm)		Max. Ohmic resistance at 20°C (Ω/km)	Diameter (mm)		Strand diameter (mm)	Overall diameter (mm)	Weight Max. (g/m)
			Min.	Max.		Nom.	Max.			
133217	24	19 x 0.12	0.55	0.62	100	1.13	1.33	0.08	3.1	15

EN 3375-007C WW – ECS 0700 WW

Oil resistance
Very good resistance to aircraft fluids

Data bus cable of multiplexed transmission.

77 Ohms, AWG 26 Pair Double Shielded High temperature.

CABLE DESIGN

Conductor

Silver plated high strength copper alloy

Fluoropolymer insulation

Assembly

2 cores twisted with 2 fillers

Braid

2 silver plated copper shields

Jacket

Fluoropolymer UV laser markable

IDENTIFICATION

Color of cores: Blue, White

Color of Jacket: White

for ECS0700 & STUDY 132041

Color of marking: Black

Marking text: ECS0700 WW FR F**

for EN 3375-007

JACKET CODE "NONE"

Color of marking: Green

Marking text: EN WW 26 FRF**

JACKET CODE "C01"

Color of marking: Red for the main line

Marking text: EN WW R 26 FRF**

JACKET CODE "C02"

Color of marking: Blue for the branch line

Marking text: EN WW B 26 FRF**

** = *Year of manufacturing (i.e 14 = 2014)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 VAC
Characteristic impedance	77 ± 7Ω at 1 MHz
Maximum capacitance	75 pF/m
Maximum attenuation	4.1 dB/100m at 1 MHz
Maximum transfert impedance	30 mΩ/m DC 15 mΩ/m at 1 MHz 15 mΩ/m at 10 MHz 15 mΩ/m at 30 MHz

STANDARDS

International EN 3375-007

Temperature
Operating:
−65°C to
+200°C

Static operating bending
radius **min. 20 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR				INSULATION		SHIELD	
		Composition N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ω/km) Max.	Diameter (mm)		Diameter (mm)	
			Nom.	Max.		Nom.	Max.	Strand	Max.
132041	26	19 x 0.11	0.49	0.53	153	0.80	0.85	0.08	2.40

FINISHED CABLE		
Overall diameter Nom. (mm)	Overall diameter Max. (mm)	Weight Max. (g/m)
2.90	3.10	21

EN 3375-009C WX – ET 133199

Oil resistance
VDE 0472 part 803/B; UL1581; CEI EN 60811

Data bus cable for aeronautic applications.

120 Ohms, AWG 26 Shielded Pair High temperature.

CABLE DESIGN

Conductor

Silver plated high strength copper alloy

Aerated fluoropolymer insulation

Assembly

2 cores twisted with 2 aerated fillers

Braid

Silver plated copper shield

Jacket

Fluoropolymer

IDENTIFICATION

Color of cores: Blue, Red

Color of Jacket: White

Color of marking: Black

Marking text: EN WX 26 FRF**

** = *Year of manufacturing*

STANDARDS

International EN 3375-009

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Maximum capacitance	45 pF/m
Nominal velocity of propagation	80%
Characteristic impedance	108 < Zc < 132 at 1 MHz 100 < Zc < 120 at 20 MHz
Maximum attenuation	3 dB/100 m at 1 MHz 8 dB/100 m at 5 MHz
Nominal transfert impedance	50 mΩ/m DC 50 mΩ/m at 1 MHz 50 mΩ/m at 10 MHz 100 mΩ/m at 30 MHz

Temperature Operating: **–55°C to +200°C**

Dynamic operating bending radius **min. 20 mm**

Static operating bending radius **min. 20 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR			INSULATION			BRAID	
		Composition N x d (mm)	Diameter (mm)		Ohmic resistance at 20°C (Ω/km) Max.	Diameter (mm)		Diameter (mm)	
			Nom.	Max.		Nom.	Max.	Strand	Max.
133199	26	7 x 0.16	0.47	0.48	145	1.05	1.12	0.08	2.60

FINISHED CABLE		
Overall diameter Nom. (mm)	Overall diameter Max. (mm)	Weight Max. (g/m)
2.80	2.90	18

EN 4604-003 WZ

Oil resistance
Very good resistance to aircraft fluids

Designed for signal transmission application in aeronautic environment.

50 Ohms Light Weight Coaxial Cable
Product designed according to: prEN 4604-001, -002 and -003.
Tested according to prEN 3475 and prEN 3838.

CABLE DESIGN

Conductor

Solid silver plated copper

Insulation

Aerated fluoropolyme

Braid

Metallized foil, Silver plated copper shield

Jacket

Fluoropolymer UV laser marquable

IDENTIFICATION

Color of jacket: White

Color of marking: Black

Marking text: EN WZ FRF**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

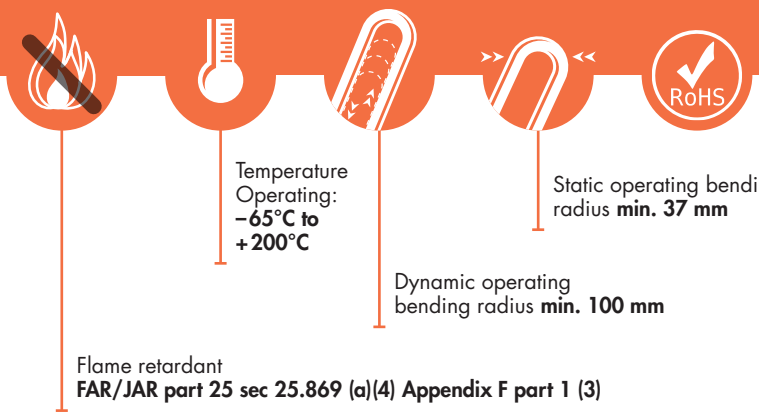
International EN 4604-003

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 3 GHz
Dielectric strength	4000 VAC
Insulation resistance	≥ 1000 MΩ.km
Characteristic impedance	50 ± 2 Ω
Maximum linear capacitance	88 pF/m
Minimum relative velocity of propagation	75%
Maximum transfer impedance	30 mΩ/m up to 3 GHz

ATTENUATION AND POWER HANDLING

Frequency (MHz)	**Max. Rated Power** (W)	**Max Attenuation at 20°C** (dB/100m)
50	110	11
200	660	19
400	450	28
1000	250	47
3000	150	90



Temperature Operating: **−65°C to +200°C**

Static operating bending radius **min. 37 mm**

Dynamic operating bending radius **min. 100 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR	INSULATION	BRAID	FINISHED CABLE	
	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Max. Weight (g/m)
EN 4604-003 WZ	0.905 +/0.025	2.35 ±0.15	3.05 ±0.15	3.55 ±0.15	30

EN 4604-004 WS

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft radio communication systems.
Especially designed for high EMC performances.

50 Ohms, Coaxial Cable. Product designed according to :
prEN 4604-001, -002, -004. Tested according to prEN 3475.

CABLE DESIGN

Conductor

Silver plated copper

Insulation

Fluorocarbon

Shield

1st layer: Silver plated copper braid

2nd layer: High permeability tape

3rd layer: Silver plated copper braid

Jacket

2 polyimide tapes

IDENTIFICATION

Color of jacket: Amber

Color of marking: Black

Marking text: EN WS FRF**

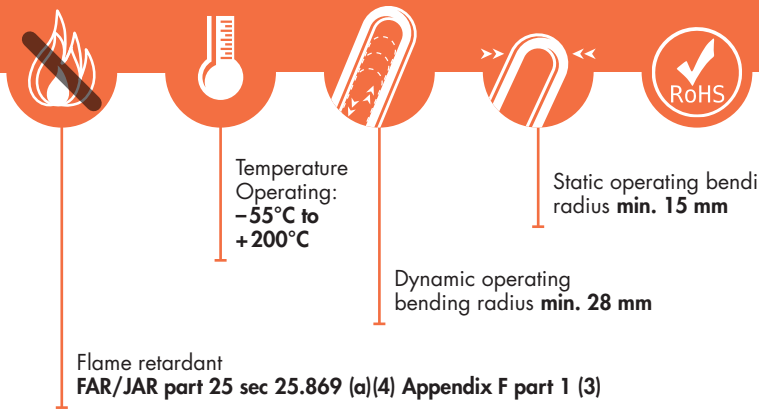
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4604-004

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 3 GHz
Dielectric strength	1500 VAC
Operating voltage	1300 VAC
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	50 ± 5 Ω
Linear capacitance	95 ± 10 pF/m
Nominal velocity of propagation	207 000 km/s (69% relative)
Transfer impedance	≤ 45 mΩ/m up to 100 MHz



Temperature Operating: **–55°C to +200°C**

Static operating bending radius **min. 15 mm**

Dynamic operating bending radius **min. 28 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	SHIELD			FINISHED CABLE	
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm) 1ST LAYER	Diameter strand (mm) 3RD LAYER	Diameter (mm)	Diameter (mm)	Max. Weight (g/m)
EN 4604-004 WS	7 x 0.16	0.48	1.50	0.085	0.085	2.20 ± 0.14	2.40 ±0.16	20

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power (W)	Max Attenuation at 20°C (dB/100m)
50	600	26
100	400	36
200	270	55
400	180	78
1000	120	140
3000	75	195

EN 4604-005 WL

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft radio communication systems.

75 Ohms, Coaxial Cable.

CABLE DESIGN

Conductor

High strength silver plated copper alloy

Insulation

Fluorocarbon

Shield

Silver plated copper double shield

Jacket

Fluorocarbon

IDENTIFICATION

Color of jacket: Blue

Color of marking: Black

Marking text: WL FRF**

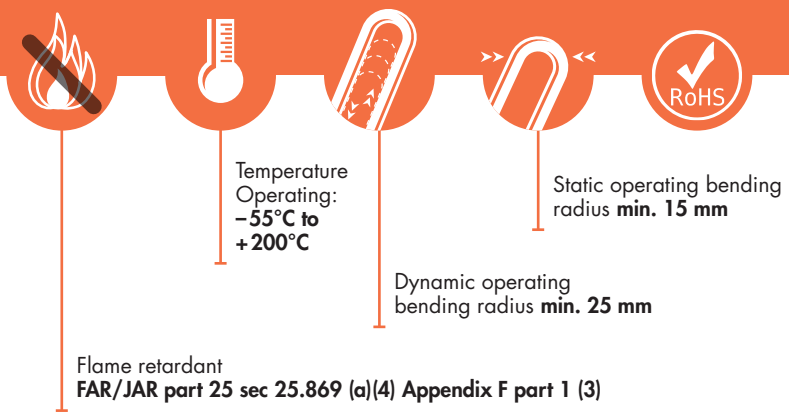
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4604-005

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 3 GHz
Dielectric strength	2000 VAC
Maximum operating voltage	500 VRMS
Maximum ohmic resistance	384 Ω/km
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	75 ± 5 Ω
Maximum linear capacitance	60 pF/m
Velocity of propagation	≥ 222 000 km/s (74% relative)
Maximum transfer impedance	30 mΩ/m up to 1 MHz 5 mΩ/m up to 20 MHz 30 mΩ/m up to 100 MHz



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	BRAID	
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)
EN 4604-005 WL	7 x 0.10	0.30 ± 0.025	1.30	1.85 ± 0.10	0.08

FINISHED CABLE	
Diameter Max. (mm)	Weight Max. (g/m)
2.35	12.5

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power (W)	Max Attenuation at 20°C (dB/100m)
10	640	10
50	290	23
100	200	30
200	140	43
300	110	53
400	100	63
1000	65	102
3000	37	176

EN 4604-006 WM

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft electrical systems.

50 Ohms, Coaxial Cable.

CABLE DESIGN

Conductor

Solid silver plated copper

Insulation

Expanded PTFE

Shield

1st layer: Silver plated copper tape

2nd layer: Silver plated copper braid

Jacket

Violet FEP

IDENTIFICATION

Color of jacket: Black

Marking text: EN WM FRF**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

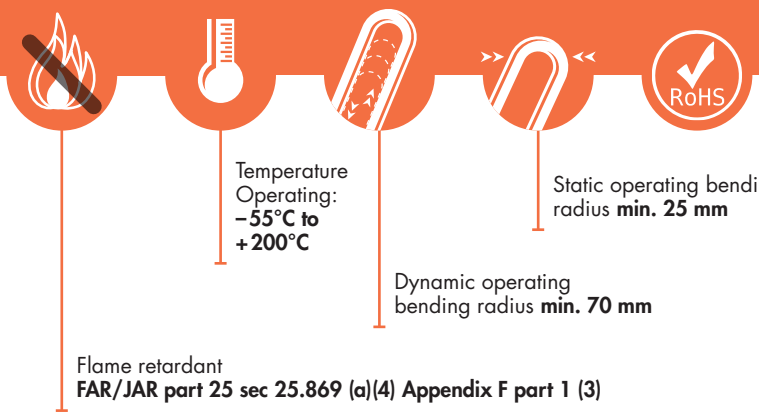
International EN 4604-006

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 5 GHz
Dielectric strength	2500 VAC
Operating voltage	750 VAC
Characteristic impedance	50 ± 3 Ω
Maximum linear capacitance	82 pF/m
Nominal velocity of propagation	243 000 km/s (81%)

ATTENUATION AND POWER HANDLING

Frequency (MHz)	**Max. Rated Power** (W)	**Max Attenuation at 20°C** (dB/100m)
50	2800	8
100	2000	11.5
400	110	20.5
1000	600	40
5000	300	85



Temperature Operating: **–55°C to +200°C**

Static operating bending radius **min. 25 mm**

Dynamic operating bending radius **min. 70 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR	INSULATION	SHIELD		FINISHED CABLE	
	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Overall Diameter (mm)	Weight Max. (g/m)
EN 4604-006 WM	1.02 ± 0.03	2.84 ± 0.10	3.50 ± 0.20	0.10	3.85 ± 0.15	35

EN 4604-007 WN

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft electrical systems.

50 Ohms, Coaxial Cable.

CABLE DESIGN

Conductor

Solid silver plated copper

Insulation

Expanded PTFE

Shield

1st layer: Silver plated copper tape

2nd layer: Silver plated copper braid

Jacket

Violet FEP

IDENTIFICATION

Color of jacket: Violet

Marking text: EN WN FRF**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

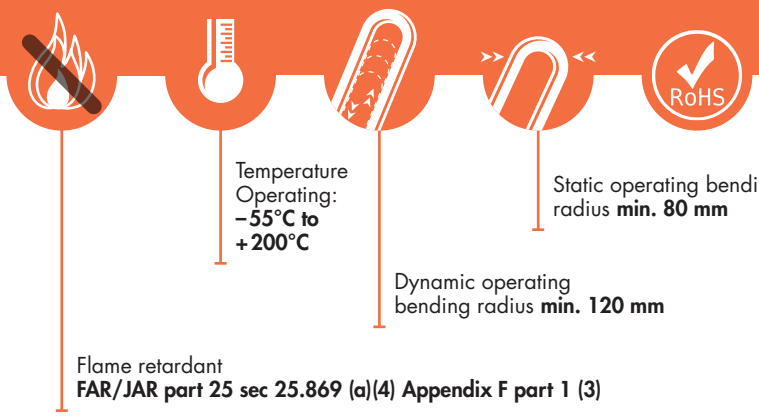
International EN 4604-007

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 6 GHz
Dielectric strength	3000 VAC
Operating voltage	1000 VAC
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	50 ± 3 Ω
Maximum linear capacitance	82 pF/m
Nominal velocity of propagation	243 000 km/s (81%)

ATTENUATION AND POWER HANDLING

Frequency (MHz)	**Max. Rated Power** (W)	**Max Attenuation at 20°C** (dB/100m)
50	8000	3.5
100	5000	5.5
400	3000	10
1000	2000	15
5000	800	35
6000	700	41



Temperature Operating: **–55°C to +200°C**

Static operating bending radius **min. 80 mm**

Dynamic operating bending radius **min. 120 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CORE	INSULATION	SHIELD		FINISHED CABLE	
	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Diameter (mm)	Diameter (mm)	Max. Weight (g/m)
EN 4604-007 WN	2.30 ± 0.03	6.20 ±0.10	0.20	7.50 ±0.20	8.00 ±0.20	145

EN 4604-008 WD

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency radio communications applications in aeronautic environment.

50 Ohms, Coaxial Cable. Product designed according to : prEN 4604-001,-002 and 008. Tested according to prEN 3475.

CABLE DESIGN

Conductor

Strand, Silver plated copper

Insulation

Fluorocarbon

2 braids

Silver plated copper

Jacket

Fluoropolymer

IDENTIFICATION

Color of jacket: White

Color of marking: Black

Marking text: EN WD FRF**

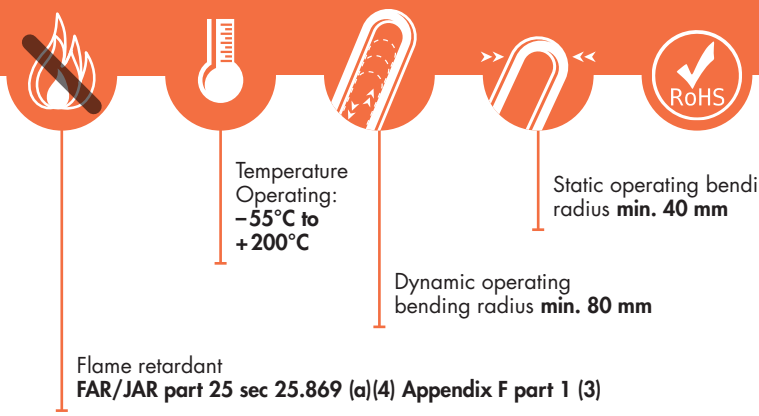
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4604-008

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 8 GHz
Dielectric strength	2500 VAC
Corona extinction voltage	1500 VAC
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	50 ± 2 Ω at 200 MHz
Maximum linear capacitance	85 pF/m
Nominal velocity of propagation	240 000 km/s



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	BRAID	FINISHED CABLE		
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Weight (g/m) Nom.	Max.
EN 4604-008 WD	37 x 0.34	2.33 ±0.05	6.0 ± 0.10	7.10 ±0.10	7.70 ±0.20	130	137

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Nom. Rated Power (W)	Max Attenuation at 20°C (dB/100m)	Max Return Loss
50	5700	5.0	1.1
100	4000	7.2	1.1
150	3100	9.1	1.1
200	2700	10.7	1.15
400	1800	16.1	1.15
1000	1000	28.6	1.15
1600	730	39.6	1.2
2500	530	55.0	1.2
3000	480	61.0	1.2
8000	250	110.0	1.35

TRANSFERT IMPEDANCE

Maximum Values (mΩ/m)	4.2 from 0 to 0.01 MHz
	4.0 at 0.1 MHz
	1.3 at 1 MHz
	0.6 at 5 MHz
	1.0 at 10 MHz
	2.3 at 30 MHz
	5.5 at 100 MHz

EN 4604-009 KW

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft electrical systems.

50 Ohms, Low Loss Weight Coaxial Cable.
According to prEN 4604-009 P4.

CABLE DESIGN

Conductor

Solid silver plated copper clad aluminum

Insulation

Expanded fluoropolymer

Shield

1st layer: Silver plated copper tape

2nd layer: Braid based on mix of silver plated copper clad aluminum wire and silver plated copper wire

Jacket

Fluoropolymer

IDENTIFICATION

Color of jacket: Turquoise

Color of marking: Black

Marking text: EN KW FRF**

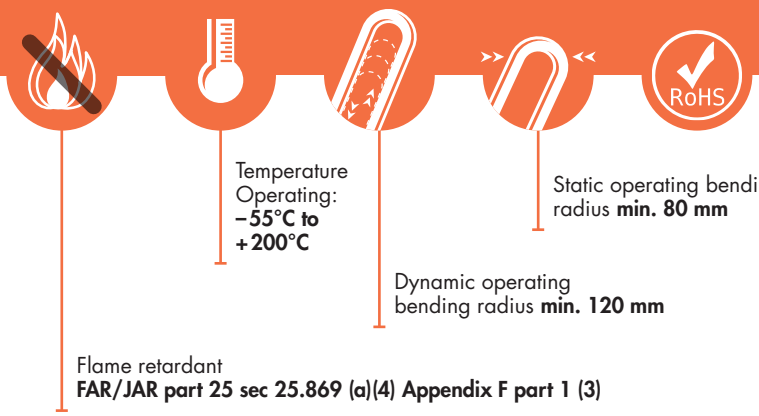
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4604-009

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 6 GHz
Dielectric strength	3000 VAC
Operating voltage	1000 VAC
Minimum insulation resistance	5000 MΩ.km
Characteristic impedance	50 ± 3 Ω at 200 MHz
Maximum linear capacitance	88 pF/m
Minimum velocity of propagation	81%
Maximum conductor ohmic resistance	7.15 Ω/km
Maximum transfer impedance	20 MΩ/m up to 400 MHz



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR	INSULATION	SHIELD		FINISHED CABLE		
	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Diameter (mm)	Weight Nom. (g/m)	Weight Max. (g/m)
EN 4604-009 KW	2.30 ± 0.02	6.0 ± 0.10	6.87 ± 0.20	0.13	7.65 ± 0.15	85	95

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max Attenuation at 20°C (dB/100m)	Max Return loss
50	3.5	1.1
100	5.5	1.1
400	10	1.15
1000	15	1.15
5000	35	1.2
6000	41	1.35

EN 4604-010 KX

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft electrical systems.

50 Ohms, Low Loss Light Weight Coaxial Cable.
Product designed according to : EN 4604-001,-002 and -010.
Tested according to EN 3475.

CABLE DESIGN

Conductor

Solid silver plated copper

Insulation

Fluoropolymer

Shield

1st layer: Silver plated copper tape

2nd layer: Silver plated copper braid

Jacket

Fluoropolymer

IDENTIFICATION

Color of jacket: Light Green

Color of marking: Black

Marking text: EN KX FRF**

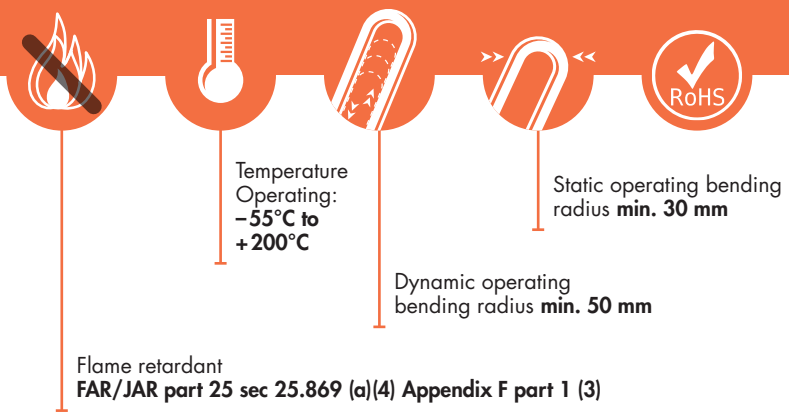
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4604-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 6 GHz
Dielectric strength	2500 VAC
Operating voltage	1000 VRMS max.
Minimum insulation resistance	5000 MΩ.km
Characteristic impedance	50 ± 2 Ω at 200 MHz
Maximum linear capacitance	88 pF/m
Maximum relative velocity of propagation	75%
Maximum conductor ohmic resistance	11.53 Ω/km



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR	INSULATION	SHIELD		FINISHED CABLE		
	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Diameter (mm)	Weight Nom. (g/m)	Weight Max. (g/m)
EN 4604-010 KX	1.40 ± 0.02	4.20 +0.10/-0.15	4.80 ± 0.20	0.13	5.40 ± 0.15	74	80

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max Attenuation at 20°C (dB/100m)	Max Return Loss
50	5.5	1.10
100	7.8	1.10
150	9.7	1.10
200	11	1.15
400	15.5	1.15
1000	24.5	1.15
1600	31.5	1.20
2500	38.9	1.20
3000	43.8	1.20
6000	63.5	1.35

TRANSFERT IMPEDANCE

Maximum Values (mΩ/m)	9.0 from 0 to 0.01 MHz
	9.0 at 0.1 MHz
	5.0 at 1 MHz
	1.8 at 5 MHz
	1.0 at 10 MHz
	0.5 at 30 MHz
	0.5 at 100 MHz

EN 4608-005B – GPB 24

Oil resistance
Very good resistance to aircraft fluids

Use in the onboard electrical systems of aircraft.

120 Ohms, AWG 24 Fireproof Cable for Data Transmission.
Two cores twisted screened and jacketed.

CABLE DESIGN

Conductor

AWG 24, Nickel clad copper alloy

Insulation

Fire resistant insulation, Polyimide tape, PTFE tape

Assembly

2 cores twisted

Braid

0.12 mm, Nickel plated copper shield

Jacket

UV PTFE tape(s)

IDENTIFICATION

Color of cores: White with a helical red stripe
White with a helical blue stripe

Color of Jacket: White with a narrow red stripe

Marking text: EN GPB 24 FRF**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 4608-005

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Operating frequency	up to 125 KHz
Capacitance	85 pF/m at 100 KHz
Impedance	120 ± 20% Ω at 100 KHz
Transfert impedance	< 30 mΩ at 100 KHz
Attenuation	< 1.6 dB/100m at 100 KHz

Temperature
Operating:
–65°C to
+260°C

Fire resistant
>10k Ω 15 min

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	SIZE CODE	AWG	CONDUCTOR		INSULATION	FINISHED CABLE		
			Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Number of cores	Diameter Max. (mm)	Weight Max. (g/m)
EN 4608-005B 002	002	24	19 x 0.12	135	1.60	2	4	27.5

NSA 935 355 XS

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency interconnections.

Product designed according to: NSA935355.

CABLE DESIGN

Conductor
Silver plated copper covered steel

Insulation
Extruded PTFE

Shield
Double braid of silver plated copper

Jacket
PTFE tape(s), Glass fiber

IDENTIFICATION
Color of jacket: Brown

Color of marking: White

Marking text: XS FR F**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 17 = 2017)*

STANDARDS
Customer specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 10 GHz
Dielectric strength	10000 V
Operating voltage	3700 VRMS max.
Minimum insulation resistance	5000 MΩ.km
Characteristic impedance	50 ± 2 Ω at 200 MHz
Maximum linear capacitance	105 pF/m
Nominal relative velocity of propagation	69%
Maximum conductor ohmic resistance	5.68 Ω/km

ATTENUATION AND POWER HANDLING

Frequency (MHz)	**Mean Attenuation at 20°C** (dB/100m)
10	2
200	9.5
400	15
3000	52

Temperature
Operating:
–90°C to
+250°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	SHIELD	JACKET	
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Diameter (mm)	Weight Max. (g/m)
NSA 935 355 XS	7 x 0.81	2.40	7.25 ± 0.13	0.16	10.90 ± 0.25	270

NSA 935 344 XE

Designed for high frequency interconnections.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

Conductor

Silver plated copper covered steel

Insulation

Extruded PTFE

Braid

Silver plated copper shield

Jacket

White PTFE tapes

IDENTIFICATION

Color of jacket: White

Marking text: XE FR F **

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International NSA 935344 XE

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Maximum operating frequency	1.8 GHz
Voltage rating	900 VRMS
Nominal capacitance	95 pF/m
Impedance	50 ± 2 Ω at 200 MHz
Nominal attenuation	0.8 dB/100 m at 900 MHz

Temperature
Operating:
max 250°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	SHIELD	JACKET	
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter strand (mm)	Diameter (mm)	Weight Max. (g/m)
NSA 935 344 XE	7 x 0.17	0.51	1.52 ± 0.07	0.10	2.70 ± 0.10	18

PAN 6422

Oil resistance
Very good resistance to aircraft fluids

PTFE Coaxial Laser Markable Cables.

For general purpose coaxial cables.

CABLE DESIGN

Conductor

Stranded conductors: see table on this data sheet

Insulation

Extruded PTFE

Shield

Silver plated copper single or double braid

Jacket

Polyimide tape, UV Laser PTFE Tape(s),
(Munsell colour limits 5YR 6/4 to 5YR 7/4)

IDENTIFICATION

None

STANDARDS

International MIL C17, National PAN 6422

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

NEXANS REFERENCE	MIL-C-17 PART NUMBER	NOMINAL IMPEDANCE Ω	ATTENUATION				VOLT	OPERATING FREQUENCY
			(dB/100 m at 10 MHz)	(dB/100 m at 100 MHz)	(dB/100 m at 400 MHz)	(dB/100 m at 1000 MHz)	**Max.** (RMS)	**Max.** (MHz)
PAN 6422 XQ	M17/172-00001 (RG316/U)	50	10.7	37.4	65.6	101.5	900	1000
PAN 6422 XR	M17/175-00001 (RG400/U)	50	3.96	14.4	31.6	53.2	1400	
PAN 6422 XT	M17/169-00001 (RG178/U)	50	18.45	46.0	92.0	151.0	750	
PAN 6422 XU	URM 107	50	1.7	6.3	13.6	23.4	3500	
PAN 6422 XY	M17/94-RG179 (RG179/U)	50	17.45	32.9	52.5	79.0	900	
PAN 6422 XZ	M17/95RG180 (RG180/U)	50	3.96	14.4	31.6	53.2	1100	

Temperature Operating: **max +200°C**

Bending radius, fixed installation **min. 6 mm (xD)**

RoHS

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	MIL-C-17 PART NUMBER	CONDUCTOR			INSULATION
		Composition strand N x d (mm)	Nature	Nom. Diameter (mm)	Diameter Nom. (mm)
PAN 6422 XQ	M17/172-00001 (RG316/U)	7 x 0.1702	SPCCS	0.51	1.52
PAN 6422 XR	M17/175-00001 (RG400/U)	19 x 0.195	SPC	0.96	2.95
PAN 6422 XT	M17/169-00001 (RG178/U)	7 x 0.1016	SPCCS	0.30	0.82
PAN 6422 XU	URM 107	7 x 0.82	SPC	2.46	7.25
PAN 6422 XY	M17/94-RG179 (RG179/U)	7 x 0.1016	SPCCS	0.30	1.60
PAN 6422 XZ	M17/95RG180 (RG180/U)	7 x 0.1016	SPCCS	0.30	2.59

NEXANS REFERENCE	MIL-C-17 PART NUMBER	SHIELD		FINISHED CABLE	
		Number	Nature	Diameter Nom. (mm)	Nom. Weight (kg/m)
PAN 6422 XQ	M17/172-00001 (RG316/U)	1	SPC	2.22	14
PAN 6422 XR	M17/175-00001 (RG400/U)	2	SPC	4.28	58
PAN 6422 XT	M17/169-00001 (RG178/U)	1	SPC	1.54	7.2
PAN 6422 XU	URM 107	1	SPC	8.66	180
PAN 6422 XY	M17/94-RG179 (RG179/U)	1	SPC	2.30	14
PAN 6422 XZ	M17/95RG180 (RG180/U)	1	SPC	3.29	26

STUDY 65529 – PAN 6421 ZA 002

Oil resistance
Good

Cable, Special Electric, MIL-STD-1553B DATA BUS.

77 Ohms, AWG 24 Shielded Pair.

CABLE DESIGN

Conductor
Silver plated copper alloy

Insulation
Polyimide/FEP, Tape plus dispersion

Assembly
2 cores + 2 PTFE fillers

Inner screen
0.08 mm silver plated copper braid

Outer screen
0.08 mm silver plated copper braid

Jacket
Extruded FEP, 0.20 mm minimum wall thickness

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Characteristic impedance	77 ± 3 Ω
Mutual capacitance	98.4 pF/m
Maximum attenuation	4.92 dB/100 m

IDENTIFICATION

Color of cores: Red, Blue

Color of jacket: Blue

Marking text: PAN 6421 ZA 002 FR F**

** = *Year of manufacturing*

STANDARDS

National PAN 6421 ZA; SP-P99301-00-P

Temperature
Operating:
–65°C to
+150°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		BRAID
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Diameter Max. (mm)	Diameter strand (mm)
STUDY 65529	24	19 x 0.118	112	1.22	1.26	0.08

FINISHED CABLE		
Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
3.15	3.80	29

STUDY 124843 – ASNE 0849 HJ 26

Oil resistance
Good

General Electronic Wiring.

75 Ohms, AWG 26 - Twinaxial cable high immunity.

CABLE DESIGN

Conductor

Stranded conductors
Nickel plated high strength copper alloy

Insulation

Polyimide tape(s), PTFE Topcoat

Assembly

2 cores twisted

1st Shield

Nickel Plated Copper Braid, High immunity tapes

2nd Shield

Nickel plated copper braid, High immunity tapes

Jacket

FEP

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VRMS
Max impedance	75 Ohms
Transfer impedance	28 mOhms/m DC current 8.70 mOmhms/m at 10 kHz 0.85 mOmhms/m at 100 kHz 0.008 mOmhms/m at 2 MHz

IDENTIFICATION

Color of cores: Light Blue, Red

Color of jacket: White

Black marking of the external sheath: HJ 26 FR F**

FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Filotex)*
** = *Year of Manufacturing (ie. 14 = 2014)*

STANDARDS

National ASNE 0849 HJ

STUDY 124843 – ASNE 0849 HJ 26

Temperature
Operating:
–65°C to
+200°C

Static operating bending
radius **min. 30 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION	1ST BRAID	2ND BRAID
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Max. (mm)	Diameter strand (mm)	Diameter strand (mm)
STUDY 124843	26	19 x 0.10	165	0.85	0.08	0.10

FINISHED CABLE	
Overall Diameter Max. (mm)	Weight Max. (g/m)
3.00	22

STUDY 61333 – SP 554

Oil resistance
Good

Bus lines for multiplexed transmission.

Approved by the Defense Ministry under letters N°8981/STTE/CTG (10/09/1986).
Registered at B.N.Aé N°6415 401.
75 Ohms, AWG 22 Pair Double Shielded.

CABLE DESIGN

Conductor
AWG 22, Silver plated copper

Insulation
Extruded PTFE

Assembly
2 cores + 2 PTFE fillers

1st Braid
Silver plated copper 12/100

Tape
High permeability alloy

2nd Braid
Silver plated copper 12/100

Jacket
Polyimide PTFE

IDENTIFICATION

Color of cores: White, Blue

Color of jacket: White

Marking tape
under jacket: **

** = *Year of manufacturing (ie. 14 = 2014)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 V
Voltage withstanding	2000 VRMS between conductors 2000 VRMS between conductors and shield
Jacket sperk test	5000 V
Insulation resistance	> 5000 MΩ.km under 500 V
Characteristic impedance	75 ± 5 Ω
Nominal mutual capacitance	65 ± 5 pF/m
Capacitance unbalance	≤ 5%
Nominal attenuation	2.6 dB/100 m at 1 MHz 10 dB/100 m at 10 MHz
Transfer impedance	2.5 x10^{-5} Ω/m

Temperature
Operating:
–65°C to
+200°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		ASSEMBLY	BRAID	
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Min. (mm)	Diameter Max. (mm)	Diameter Nom. (mm)	Diameter strand (mm)	Diameter Nom. (mm)
STUDY 61333	22	19 x 0.16	50.2	1.47	1.53	3	0.12	4.06

FINISHED CABLE		
Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
4.30	4.80	55.4

STUDY 124960

Oil resistance
Good

Bus lines for multiplexed transmission.

77 Ohms, AWG 26 Shielded Pair.

CABLE DESIGN

Conductor

Silver plated copper alloy (EN2083)

Insulation

Extruded PTFE

Assembly

2 cores + 2 PTFE fillers

Shield

Silver plated copper 10/100

Jacket

UV laser markabke ETFE

IDENTIFICATION

Color of cores: White, Blue

Color of jacket: White

Marking text: FILOTEX FRANCE ET 124960**

** = *Year of Manufacturing (ie. 14 = 2014)*

Red marking for the main line
(Nexans reference : ETUDE 12496001)

Blue marking for the branch line
(Nexans reference : ETUDE 12496002)

STANDARDS

International EN 3375

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V
Voltage withstanding	1000 V between conductors 1000 V between conductors and shield
Jacket sperk test	1000 V
Insulation resistance	≥ 1500 MΩ.km
Characteristic impedance	77 ± 7 Ω at 1 MHz
Nominal mutual capacitance	65 pF/m
Nominal capacitance	110 pF/m between 1 core and shield 180 pF/m between cores and shield
Nominal attenuation	3.5 dB/100 m at 1 MHz
Maximum transfer impedance	50 mΩ/m DC current 50 mΩ/m at 1 MHz 50 mΩ/m at 10 MHz 100 mΩ/m at 30 MHz

Temperature
Operating:
−65°C to
+150°C

Static operating bending
radius **min. 15 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		BRAID	
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Diameter Max. (mm)	Diameter strand (mm)	Diameter Max. (mm)
STUDY 124960	26	19 x 0.10	146	0.75	0.85	0.10	2

FINISHED CABLE		
Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
2.40	2.60	19

STUDY 96770 – ASNE 0479 WJ EN 3375-004B

Oil resistance
Good

Bus lines for multiplexed transmission.

77 Ohms, AWG 24 Pair Double Shielded.

CABLE DESIGN

Conductor

AWG 24
Silver plated copper alloy (EN 2083)

Insulation

Extruded PTFE

Assembly

2 cores twisted + 2 PTFE fillers

1st Shield

Tin plated copper 10/100

2nd Shield

Tin plated copper 10/100

Jacket

FEP jacket

IDENTIFICATION

Marking text: FILOTEX FRANCE ET 96770**

** = *Year of manufacturing*

Red marking for the main line
(EN 3375-004 B01 Nexans reference: ETUDE 9677001)

Blue marking for the branch line
(EN 3375-004 B02, Nexans reference: ETUDE 9677002)

STANDARDS

International EN 3375

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V
Voltage withstanding	1000 V between conductors 1000 V between conductors and shield
Jacket sperk test	1000 V
Insulation resistance	≥ 1500 MΩ.km
Characteristic impedance	77 ± 7 Ω at 1 MHz
Nominal mutual capacitance	65 pF/m
Nominal capacitance	110 pF/m between 1 core and shield 180 pF/m between cores and shield
Nominal attenuation	2.7 dB/100 m at 1 MHz
Maximum transfer impedance	15 mΩ/m DC current 5 mΩ/m at 1 MHz 5 mΩ/m at 10 MHz 10 mΩ/m at 30 MHz

Temperature
Operating:
–65°C to
+150°C

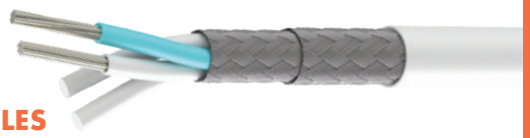
Static operating bending
radius **min. 20 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		ASSEMBLY
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Min. (mm)	Diameter Max. (mm)	Diameter Nom. (mm)
STUDY 96770	24	19 x 0.12	109	0.95	1.15	2.10

BRAID		FINISHED CABLE		
Diameter strand (mm)	Diameter Max. (mm)	Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
0.10	3.50	3.40	3.90	37



STUDY 69794 – EN 3375-004C WJ

Oil resistance
Good

Data bus cable for multiplexed transmission.

77 Ohms, AWG 24 Pair Double Shielded High Temperature.

CABLE DESIGN

Conductor
Silver plated high strength copper alloy

Insulation
Fluoropolymer

Assembly
2 cores twisted with 2 fillers

Braid
2 silver plated copper shields

Jacket
Fluoropolymer

IDENTIFICATION
Color of cores: Blue, White

Color of jacket: White

JACKET CODE "NONE"

Colour of marking: Green

JACKET CODE "01"

Colour of marking: Red for the main line

JACKET CODE "02"

Colour of marking: Blue for the branch line

Marking text: FILOTEX FRANCE ET 69794**

** = *Year of manufacturing*

STANDARDS
International EN 3375-004

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	600 VAC
Characteristic impedance	77 ± 7 Ω
Maximum capacitance	78 pF/m
Maximum attenuation	3.6 dB/100m at 1 MHz
Maximum transfer impedance	15 mΩ/m DC 5 mΩ/m at 1 MHz 5 mΩ/m at 10 MHz 10 mΩ/m at 30 MHz

Temperature
Operating:
–65°C to
+200°C

Static operating bending
radius **min. 26 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR				INSULATION	
		Composition N x d (mm)	Diameter Nom. (mm)	Diameter Max. (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Diameter Max. (mm)
STUDY 69794	24	19 x 0.12	0.59	0.62	109	1.05	1.30

BRAID		FINISHED CABLE		
Diameter strand (mm)	Diameter Max. (mm)	Overall Diameter Nom. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
0.10	3.50	3.65	3.90	37

STUDY 132873

Data bus cable for aeronautic applications.

100 Ohms, AWG 24 Shielded Pair Fireproof Cable.

CABLE DESIGN

Conductor

Nickel clad copper alloy

Insulation

Fire resistant

Polyimide Tape

PTFE Tape

Assembly

2 cores twisted

Braid

Nickel Plated Copper shield

Jacket

PTFE Tape(s)

IDENTIFICATION

Color of cores: Blue, Red

Color of jacket: Light Blue with narrow red

Marking text: ET 132873 FRF**

** = *Year of Manufacturing (ie. 14 = 2014)*

STANDARDS

National ESW 1254-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	125 kHz
Voltage rating	600 VRMS
Maximum capacitance	85 pF/m
Characteristic impedance	100 Ω at 1MHz
Maximum attenuation	1.6 dB/100m at 0.1 MHz
Maximum transfer impedance	30 mΩ/m at 0.1 MHz

Temperature
Operating:
−65°C to
+260°C

Fire resistant
>10k Ω 15 min

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR				INSULATION	
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Diameter Max. (mm)	Diameter Nom. (mm)	Diameter Max. (mm)
STUDY 132873	24	19 x 0.12	135	0.58	0.62	1.58	1.65

BRAID		FINISHED CABLE		
Diameter strand (mm)	Diameter Nom. (mm)	Overall Diameter Nom. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
0.12	3.64	4.12	4.45	38

STUDY 124961

Oil resistance
Good

Bus lines for multiplexed transmission.

77 Ohms, AWG 24 Shielded Pair.

CABLE DESIGN

Conductor

Silver plated copper alloy (EN2083)

Insulation

Extruded PTFE

Assembly

2 cores + 2 PTFE fillers

Shield

Silver plated copper 10/100

Jacket

UV laser markabke ETFE

IDENTIFICATION

Color of cores: White, Blue

Color of jacket: White

Marking text: FILOTEX FRANCE ET 124961**

** = *Year of Manufacturing (ie. 14 = 2014)*

Red marking for the main line
(EN 3375004C01, Nexans reference:
ETUDE 12496101)

(EN 3375004C02,Nexans reference:
ETUDE 12496102)

STANDARDS

International EN 3375

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V
Voltage withstanding	1000 V between conductors 1000 V between conductors and shield
Jacket sperk test	1000 V
Insulation resistance	≥ 1500 MΩ.km
Characteristic impedance	77 ± 7 Ω at 1 MHz
Nominal mutual capacitance	65 pF/m
Nominal capacitance	110 pF/m between 1 core and shield 180 pF/m between cores and shield
Nominal attenuation	2.7 dB/100 m at 1 MHz
Maximum transfer impedance	15 mΩ/m DC current 5 mΩ/m at 1 MHz 5 mΩ/m at 10 MHz 10 mΩ/m at 30 MHz

Temperature
Operating:
−65°C to
+150°C

Static operating bending
radius **min. 20 mm**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	AWG	CONDUCTOR		INSULATION		ASSEMBLY	BRAID	
		Composition N x d (mm)	Ohmic resistance at 20°C Max. (Ω/km)	Diameter Nom. (mm)	Diameter Max. (mm)	Diameter Nom. (mm)	Diameter strand (mm)	Diameter Max. (mm)
STUDY 124961	24	19 x 0.12	109	0.95	1.15	2.10	0.10	3.50

FINISHED CABLE		
Overall Diameter Min. (mm)	Overall Diameter Max. (mm)	Weight Max. (g/m)
3.40	3.90	37

STUDY 124962

Oil resistance
Very good resistance to aircraft fluids

Recommended for Aeronautics uses and miniature systems.

Laser UV miniature Coaxial Cable with similar transmission characteristics to KX 22A/RG 316U. This cable has the following advantages: Lower diameter and weight; Better bendability; Better screening effectiveness (Double braid) UV Laser marquability.

CABLE DESIGN

Conductor
Silvered alloy

Insulation
Expanded PTFE

Shield
Silver plated copper double braid

Jacket
Laser UV ETFE markable

Strippability
Mechanical device or automatic stripper

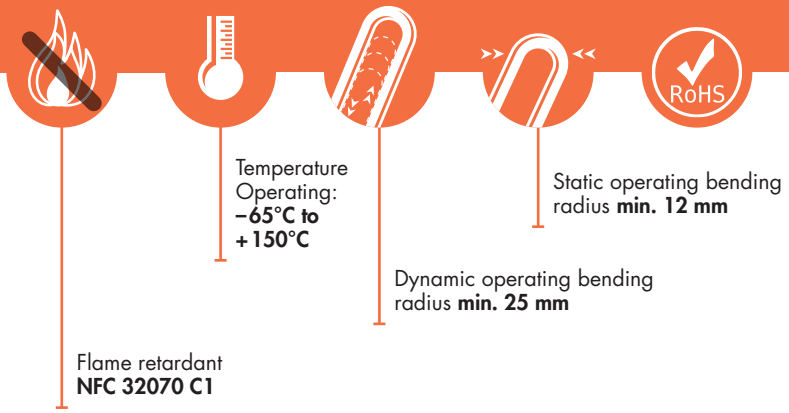
IDENTIFICATION
Color of jacket: Green

STANDARDS
International MIL C17

National NF C 93550

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V Eff 50 Hz
Voltage withstanding	3000 V Eff 50 Hz between dielectric and shield
Jacket sperk test	5000 V impulse
DC resistance at 20°C	≤ 144 Ω/km
Insulation resistance	≥ 1500 MΩ.km between dielectric and shield ≥ 1500 MΩ.km jacket
Linear capacitance	90 pF/m nominal at 1 kHz 100 pF/m maximal at 1 kHz
Characteristic impedance	50 ± 5 Ω
Nominal velocity of propagation	228 000 km/s (76%)



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAID		
	Composition N x d (mm)	Diameter Nom. (mm)	Diameter Nom. (mm)	Diameter strand (mm)	Coverage (%)	Diameter Nom. (mm)
STUDY 124962	19 x 0.098	0.48	1.35	0.07	≥ 85	2

FINISHED CABLE		
Diameter (mm)	Weight Nom. (g/m)	Weight Max. (g/m)
2.35 ± 0.05	13	14

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Mean Attenuation at 20°C (dB/100m)
10	9
100	26
200	37
500	65
1000	106
1500	133

STUDY 124964

Oil resistance
Very good resistance to aircraft fluids

Recommended for Aeronautics uses and miniature systems.

Laser UV miniature Triaxial Cable with similar transmission characteristics to KX 22A/RG 316U.This cable has the following advantages: Lower diameter and weight; Better bendability; Better screening effectiveness (Double braid); UV Laser markability. Basic core: STUDY 124962.

CABLE DESIGN

Conductor
Silver copper alloy

Insulation
Expanded PTFE

Shield
Silver plated copper 7/100
Silver plated copper 10/100

Inner Jacket
FEP

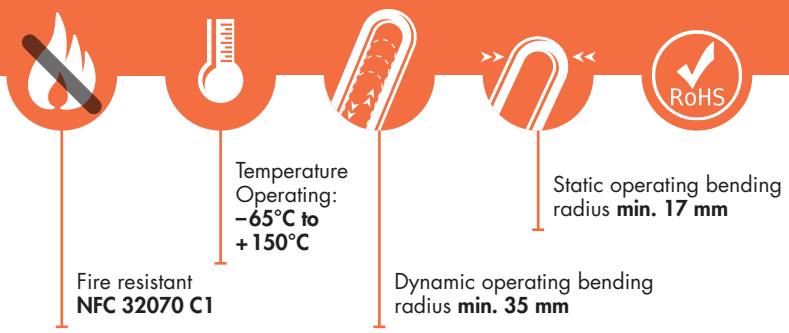
Outer jacket
Laser UV ETFE markable

IDENTIFICATION
Color of jacket: Green

STANDARDS
International MIL C17
National NF C 93-550

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Voltage rating	250 V Eff 50 Hz
Voltage withstanding	3000 V Eff 50 Hz between dielectric and shield
Jacket sperk test	5000 V impulse
DC resistance at 20°C	≤ 144 Ω/km
Insulation resistance	≥ 1500 MΩ.km between dielectric and shield ≥ 1500 MΩ.km jacket
Linear capacitance	90 pF/m nominal at 1 kHz 100 pF/m maximal at 1 kHz
Characteristic impedance	50 ± 5 Ω
Nominal relative of propagation	228 000 km/s (76%)



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	1ST SHIELD		INNER JACKET	2ND SHIELD	
	Composition N x d (mm)	Diameter Nom. (mm)	Diameter Nom. (mm)	Coverage (%)	Diameter Nom. (mm)	Diameter (mm)	Coverage (%)	Diameter Nom. (mm)
STUDY 124964	19 x 0.098	0,48	1.35	≥ 62	2.00	2.35 ± 0.05	≥ 62	2.80

FINISHED CABLE		
Overall Diameter (mm)	Weight Nom. (g/m)	Weight Max. (g/m)
3.45 ±0.10	27	30

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Mean Attenuation at 20°C (dB/100m)
10	9
100	26
200	37
500	65
1000	106
1500	133

STUDY 132574

Multimode Fibre Optic Cable 62.5/125.

Applications: harsh environments such as: aeronautics, geophysics, space, missile, chemical industry.

CABLE DESIGN

Optical fiber

Core, cladding, coating

Silica/Silica/Silicone type 62.5/125/400 µm

Outer jacket

Copolymer zero halogen high temperature

Diameter: 0.90 mm ± 0.05 mm

Sheath color

Black

IDENTIFICATION

None

STANDARDS

International EN 4641-101

CONNECTION

Stripping of primary jacket , buffer and coating.

mechanical stripping is used, we highly recommend:

- To strip directly from primary jacket to silica.
- To carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent , take care to avoid contact between solvent and other part of the cable such as strength members, silicone and jacket.

KEY FEATURES

Mechanical properties	Small diameter Low weight High temperature High flexibility Low bending radius Easy strippability
Optical properties	High bandwidth Low cost ferrules (Telecom components)
Chemical properties	High chemical resistance to on board fluids Very low smoke and toxicity No flame propagation
Minimum bend radius	Long term > 10 mm Short term (installation) > 6 mm
Maximum pulling force	10 N/s
Maximum attenuation at 20°C	4 dB/km at 850 nm 2 dB/km at 1310 nm
Effective index of refraction	1.4970 at 850 nm 1.4919 at 1310 nm
Numerical aperture	0.275 ± 0.015
Cable Bandwidth (MHz. km)	> 400 at 850 nm > 1000 at 1310 nm
Operating temperature	Long term: -55 to +125°C Peak: -65 to 150°C

STUDY 132868

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft radio communication systems.

CAC 875
75 Ohms Coaxial Cable, UV Laser Marquable.

CABLE DESIGN

Conductor
High strength silver plated copper alloy

Insulation
Fluorocarbon dielectric with low epsilon

Braid
Silver plated copper double shield

Inner Jacket
ETFE

Shield
Silver plated copper

Outer jacket
Laser UV ETFE

IDENTIFICATION
Color of jacket: Light blue

Marking text:

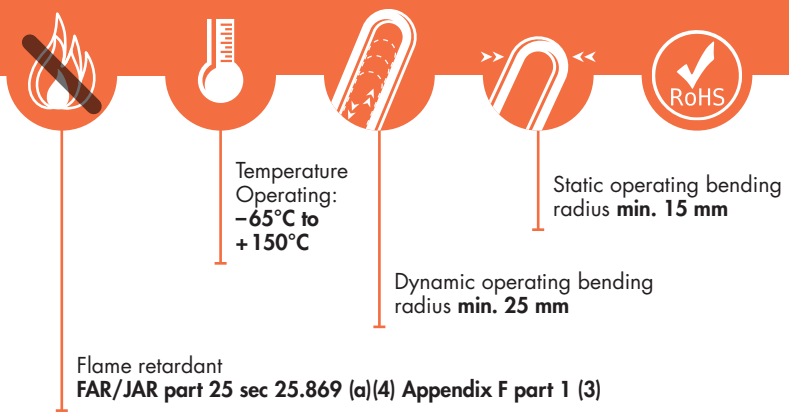
** = *Year of Manufacturing (ie.14 = 2014)*

STANDARDS
International prEN 3475

prEN 4604-001, -002 and SP132868

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 3 GHz
Maximum operating voltage	900 VRMS
Dry test voltage	2000 VAC between core and shield
Jacket dry impulse test	5000 V
Maximum ohmic resistance of conductor	384 Ω/km
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	75 ± 5 Ω
Maximum linear capacitance	60 pF/m
Velocity of propagation	≥ 222 000 km/s (74% relative)



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		INSULATION	BRAID		FINISHED CABLE	
	Composition N x d (mm)	Diameter (mm)	Diameter Max. (mm)	Diameter Min. (mm)	Diameter Max. (mm)	Diameter Max. (mm)	Weight Max. (g/m)
STUDY 132868	7 x 0.10	0.30 ± 0.025	1.30	1.75	1.95	2.37	12.5

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power (W)	Max Attenuation at 20°C (dB/100m)
50	1250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176

STUDY 132869

Oil resistance
Very good resistance to aircraft fluids

Designed for high frequency signal transmission in aircraft radio communication systems.

CAC 876
75 Ohms Triaxial Cable, UV Laser Markable.

CABLE DESIGN

Conductor
High strength silver plated copper alloy

Insulation
Fluorocarbon dielectric with low epsilon

Braid
Silver plated copper double shield

Inner Jacket
ETFE

Shield
Silver plated copper

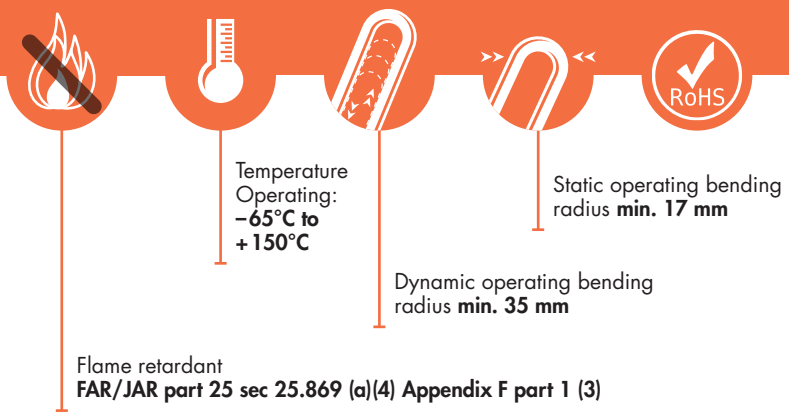
Outer Jacket
Laser UV ETFE

IDENTIFICATION
Color of inner jacket: Light blue
Color of outer jacket: Light blue

STANDARDS
International prEN 3475,
prEN 4604-001, -002 and SP132869

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating frequency	up to 3 GHz
Maximum voltage rating	900 VRMS
Dry test voltage	2000 VAC between core and shield
Jacket dry impulse test	5000 V
Maximum ohmic resistance of conductor	384 Ω/km
Insulation resistance	≥ 5000 MΩ.km
Characteristic impedance	75 ± 5 Ω
Maximum linear capacitance	60 pF/m
Velocity of propagation	≥ 222 000 km/s (74% relative)



DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAID			INNER JACKET
	Composition N x d (mm)	Diameter (mm)	Diameter Nom. (mm)	Diameter strand (mm)	Diameter Min. (mm)	Diameter Max. (mm)	Diameter (mm)
STUDY 132869	7 x 0.10	0.30 ± 0.025	1.30	0.08	1.75	1.95	2.32 ± 0.05

SHIELD	FINISHED CABLE	
Diameter strand (mm)	Diameter Max. (mm)	Weight Max. (g/m)
0.10	3.47	25.5

ATTENUATION AND POWER HANDLING

Frequency (MHz)	Max. Rated Power (W)	Max Attenuation at 20°C (dB/100m)
50	1250	23
100	900	30
200	600	43
300	450	53
400	400	63
1000	270	102
3000	150	176

M17/94-RG 179

Flexible

Oil resistance
Good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

RG179BU - Coaxial cable 75 ohms according to M17/94-RG179.
High frequency connections operating at high temperature.

CABLE DESIGN

Conductor
Silvered copper-clad steel

Type of conductor
Circular, stranded

Insulation
PTFE

Braid
Silver plated copper

Jacket
FEP

IDENTIFICATION
Packaging: Reel

Color of jacket: Brown

Color of marking on the jacket: Black

Marking text: M17/94-RG179
FILOTEX FRANE D

STANDARDS
International IEC 60332-1

US Military Specification MIL-DTL-17

National NF C 32-070

Nexans ref.: 10035685

Country ref.: 081997XAH1

EAN 13: 3427570023593

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	75 Ω at 200 MHz
Operating voltage	900 V
Nominal capacitance core to core	75.5 pF/m
Relative propagation velocity	69.5%
Maximal operating frequency	3 GHz
Attenuation	11 dB/100 m at 10 MHz 40 dB/100 m at 200 MHz 56 dB/100 m at 400 MHz 160 dB/100 m at 3000 MHz
Dielectric withstanding	2 kV at 50 Hz
Operating frequency	up to 3 GHz
Minimum insulation resistance	5000 MΩ.km

Temperature
Operating:
–90°C to
+200°C
(FEP JACKET)

Flame retardant
Good resistance to flame NFC 32070/C1 & C2 (CEI 332 –1)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	**Diameter** (mm)	**Diameter** (mm)	**Number of screen**	**Diameter** (mm)	**Diameter Nom.** (mm)	**Nominal** (g/m)
M17/94-RG 179	7 x 0.10	0.30	1.6	1	0.10	2.54	16.9

M17/172-00001 (RG 316U)

KX & RG Standard electronic coaxial cables.

RG316U - Coaxial cable 50 ohms according to M17/172-00001.
High frequency connections operating at high temperature.

CABLE DESIGN

Conductor
Silvered copper-clad steel

Type of conductor
Circular, stranded

Insulation
PTFE

Braid
Silver plated copper braid

Jacket
FEP

IDENTIFICATION
Packaging: Reel

Color of jacket: Brown

Color of marking on the jacket: Black

Marking text: M17/172-00001
FILOTEX FRANCE D 316 U

STANDARDS
International IEC 60332-1

US Military Specification MIL-DTL-17

National NF C 32-070

Nexans ref.: 10035768

Country ref.: 085790

EAN 13: 3427570022763

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	50 Ω at 200 MHz
Operating voltage	900 V
Nominal capacitance core to core	105 pF/m
Relative propagation velocity	69.5%
Maximal operating frequency	3 GHz
Attenuation	at 10 MHz: 10 dB/100 m at 200 MHz: 40 dB/100 m at 400 MHz: 55 dB/100 m at 3000 MHz: 160 dB/100m
Dielectric withstanding	2 kV at 50 Hz
Operating frequency	up to 0.4 GHz
Minimum insulation resistance	5000 MΩ.km

Temperature
Operating:
–90°C to
+200°C
(FEP JACKET)

Flame retardant
Good resistance to flame NFC 32070/C1 & C2 (CEI 332 –1)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Number of screen	Diameter (mm)	Diameter (mm)	Nominal (g/m)
M17/172-00001 (RG 316U)	7 x 0.175	0.5	1.52	1	0.17	2.49	17.1

M17/175-00001 (RG 400U)

Flexible

Oil resistance
Good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

RG400U - Coaxial cable 50 ohms according to M17/175-00001. High frequency connections operating at high temperature. Or on equipement excepted to work under severe conditions without failure.

CABLE DESIGN

Conductor
Silvered copper

Type of conductor
Circular, stranded

Insulation
PTFE

Braid
Double silvered copper braid

Jacket
FEP

IDENTIFICATION
Packaging: Reel

Color of jacket: Brown

Color of marking on the jacket: Black

Marking text: M17/175-00001
FILOTEX FRANCE D R 400 U

STANDARDS
International IEC 60332-1

US Military Specification MIL-DTL-17

National NF C 32-070

Nexans ref.: 10035811

Country ref.: 087125

EAN 13: 3427570022336

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	50 Ω at 200 MHz
Operating voltage	1400 V
Nominal capacitance core to core	105 pF/m
Relative propagation velocity	69.5%
Maximal operating frequency	3 GHz
Attenuation	at 200 MHz: 20 dB/100 m at 400 MHz: 29 dB/100 m at 3000 MHz: 89 dB/100 m at 10000 MHz: 185 dB/100 m
Dielectric withstanding	5 kV at 50 Hz
Operating frequency	up to 0.4 GHz
Minimum insulation resistance	5000 MΩ.km

Temperature
Operating:
–90°C to
+200°C
(FEP JACKET)

Flame retardant
Good resistance to flame NFC 32070/C1 & C2 (CEI 332 –1)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		OVER DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Number of screen	Diameter (mm)	Diameter (mm)	Max. (g/m)
M17/175-00001 (RG 400U)	19 x 0.200	1	2.95	2	0.2	4.95	66

M17/95-RG 180

Flexible

Oil resistance
Good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

RG180BU – Coaxial cable 95 ohms according to M17/95-RG 180.
High frequency connections operating at high temperature.

CABLE DESIGN

Conductor
Silvered copper-clad steel

Type of conductor
Circular, stranded

Insulation
PTFE

Braid
Silver plated copper braid

Jacket
FEP

IDENTIFICATION
Packaging: Reel

Color of jacket: Brown

Color of marking on the jacket: Black

Marking text: M17/95-RG180
FILOTEX FRANE D

STANDARDS
International IEC 60332-1

US Military Specification MIL-DTL-17

National NF C 32-070

Nexans ref.: 10036144

Country ref.: 087241

EAN 13: 3427570019015

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	95 Ω at 200 MHz
Operating voltage	900 V
Nominal capacitance core to core	50.5 pF/m
Relative propagation velocity	69.5%
Maximal operating frequency	3 GHz
Attenuation	7 dB/100 m at 10 MHz 30 dB/100 m at 200 MHz 43 dB/100 m at 400 MHz 150 dB/100m at 3000 MHz
Dielectric withstanding	2 kV at 50 Hz
Operating frequency	up to 3 GHz
Minimum insulation resistance	5000 MΩ.km

Temperature
Operating:
–90°C to
+200°C
(FEP JACKET)

Flame retardant
Good resistance to flame NFC 32070/C1 & C2 (CEI 332 –1)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Number of screen	Diameter (mm)	Diameter (mm)	Max. (g/m)
M17/95-RG 180	7 x 0.10	0.30	2.59	1	0.10	3.58	29.5

M17/86-00001 (RG 225U)

Flexible

Oil resistance
Very good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

Designed for high frequency interconnections.
Product designed according to : MIL-DTL-17/86.

CABLE DESIGN

Conductor
Silver plated copper covered steel

Type of conductor
Circular, stranded

Insulation
Extruded PTFE

Braid
Double braid of silver plated copper

Jacket
PTFE tape(s), Glass fiber

IDENTIFICATION
Packaging: Reel

Color of jacket: Brown

Color of marking on the jacket: White

Marking text: M17/86-00001
FILOTEX FRANCE D RG 225 U

STANDARDS
International IEC 60332-1

US Military Specification MIL-DTL-17

National NF C 32-070

Nexans ref.: –

Country ref.: –

EAN 13: –

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	50 ± 2 Ω at 200 MHz
Operating voltage	3700 VRMS max
Nominal relative velocity of propagation	69%
Attenuation	16.4 dB/100 m at 400 MHz
Dielectric withstanding	10 kV at 50 Hz
Operating frequency	up to 10 GHz
Minimum insulation resistance	5000 MΩ.km
Maximum linear capacitance	105 pF/m
Maximum conductor ohmic resistance	5.68 Ω/km

Temperature
Operating:
–90°C to
+200°C
(FEP JACKET)

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Number of screen	Diameter (mm)	Diameter (mm)	Max. (g/m)
M17/86-00001 (RG-225/U)	7 x 0.84	2.40	7.25 ± 0.13	2	0.16	10.90 ± 0.25	290

M17/93-RG 178

Flexible

Oil resistance
Very good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

Designed for high frequency interconnections.
Product designed according to : MIL-DTL-17/93.

CABLE DESIGN

Conductor
Silver plated copper covered steel

Type of conductor
Circular, stranded

Insulation
Extruded PTFE

Braid
Single braid of silver plated copper

Jacket
FEP

IDENTIFICATION
Packaging: Reel
Color of jacket: Brown
Color of marking on the jacket: Black
Marking text: M17/93-RG 178 FILOTEX FRANCE D

STANDARDS
International IEC 60332-1
US Military Specification MIL-DTL-17
National NF C 32-070

Nexans ref.: –

Country ref.: –

EAN 13: –

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	50 ± 2 Ω at 200 MHz
Operating voltage	750 VRMS max
Nominal relative velocity of propagation	69%
Attenuation	28 dB/100 m at 50 MHz 52.5 dB/100 m at 100 MHz 108 dB/100 m at 400 MHz 170 dB/100 m at 1000 MHz 308 dB/100m at 3000 MHz
Dielectric withstanding	2 kV at 50 Hz
Operating frequency	up to 3 GHz
Minimum insulation resistance	5000 MΩ.km
Maximum linear capacitance	105 pF/m
Maximum conductor ohmic resistance	802 Ω/km
Min. Structural Return Loss	26 dB at 50 MHz 25 dB at 100 MHz 22 dB at 400 MHz 19 dB at 1000 MHz

Temperature
Operating:
–55°C to
+200°C
(FEP JACKET)

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	BRAIDS	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Number of screen	Diameter (mm)	Diameter (mm)	Max. (g/m)
M17/93-RG178	7 x 0.10	0.30	0.84 ± 0.05	1	0.10	1.80 ± 0.10	9.30

M17/137-00001

Flexible

Oil resistance
Very good resistance to aircraft fluids

KX & RG Standard electronic coaxial cables.

Designed for high frequency interconnections.
Product designed according to: MIL-DTL-17/137.

CABLE DESIGN

Conductor
Silver plated copper covered steel

Type of conductor
Circular, stranded

Insulation
Extruded PTFE

Braid
Single braid of silver plated copper

Jacket
PFA

IDENTIFICATION
Packaging: Reel
Color of jacket: White
Color of marking on the jacket: Black
Marking text: M17/137-00001
FILOTEX FRANCE D

STANDARDS
International IEC 60332-1
US Military Specification MIL-DTL-17
National NF C 32-071

Nexans ref.: –

Country ref.: –

EAN 13: –

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Impedance	95 ± 5 Ω at 200 MHz
Attenuation	55.8 dB/100 m at 400 MHz
Dielectric withstanding	2 kV at 50 Hz
Operating frequency	up to 0.4 GHz
Minimum insulation resistance	5000 MΩ.km
Maximum linear capacitance	50.5 pF/m
Maximum conductor ohmic resistance	802 Ω/km

Temperature
Operating:
–55°C to
+250°C
(FEP JACKET)

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	CONDUCTOR		DIELECTRIC	STRANDS	JACKET	WEIGHT
	Composition N x d (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Max. (g/m)
M17/95-RG 180	7 x 0.10	3.58 ± 0.10	2.59	0.10	3.58 ± 0.10	29.8

SPECIAL CABLES

APPLICATION

Nexans produces a complete range of customized cables.
Thermocouples, Hook-up wires, Low noise cables.
Our products are designed to conform to
the highest aerospace standards.

ADVANTAGES

Nexans R&D laboratories have developed a range of
sensor cables with an improved measuring accuracy.

MAIN PROPERTIES

- Flame retardant, low smoke and toxicity
- Very good resistance to aircraft fluids
- Moisture resistant
- RoHS compliant

MAIN CHARACTERISTICS

- Maximum range of operating temperature: −65°C to +260°C.

STANDARDS

The cables are designed to withstand fire tests according to
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
NFC 32070 C1.
They are conform to various customer specification
and/or European Standards "EN" product norms.

STUDY 86891 – NSA 935 306 YK

Low Noise Transmission Cable 260°C.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

2 cores
19 x 0.17 mm, Silver plated copper clad steel

Insulation
Extrusion PTFE 1.40 ± 0.05 mm

Semi-conductor tape nom.
1.58 mm

Glass Fiber fillers

Semi-conductor tape

Shield
Nickel plated copper, Kr > 70% = 0.12 mm

Jacket
Polyimide tape(s), PTFE tape(s), Max. = 4.35 mm

IDENTIFICATION
Color of core: Red, Blue
Color of Jacket: White

STANDARDS
International NSA 935306 YK

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Insulation resistance	min. 1000 MΩ.km
Nominal capacitance between…	…cores: 100 pF/m …cores and shield: 200 pF/m
Triboelectrical noise…	…at 2 Hz: Displacement 40 mm pk-pk ≤ 10 pC …from 5 to 50 Hz: Displacement 5 mm pk-pk ≤ 1 pC …from 10 to 70 Hz: Displacement 2 mm pk-pk ≤ 0.15 pC
Capacitance between…	…cores: 100 pF/m …cores and screen: 200 pF/m
Voltage withstanding between…	…cores: 1500 Volts AC …cores and screen: 1500 Volts AC

Operating temperature
–55°C to +260°C

Electro magnetic
interference resistance

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	CORE	INSULATION	SEMI CONDUCTOR TAPE	SHIELD		FINISHED CABLE
	Composition n x diameter (mm)	Diameter (mm)	Nom. diameter (mm)	Coverage	Diam. Screen strands (mm)	Max. Diameter (mm)
STUDY 86891	19 x 0.17	1.40 ± 0.05	1.58	Kr>70%	0.12	4.35

CAS 250-20 P & CAS 250-22

Flexible stranded

Flexible Low Noise PTFE Coaxial Cables.

CABLE DESIGN

Conductor

0.30 mm Solid Silver plated Copper Clad Steel (CAS 250-20 P)

0.30 mm Silver plated Copper Clad Steel Diameter = 0.30 mm (CAS 250-22)

Insulation

Extruded PTFE

Diameter = 1.05 +/0.05 mm (CAS 250-20 P)

Semi Conductive PTFE Tape

Diameter = 1.29 mm (CAS 250-22)

Shield

Silver plated Copper 7/100 (CAS 250-20 P)

Silver plated Copper 10/100 (CAS 250-22)

Antimicrophonic noise coating

Diameter = 1.11 +/0.05 mm (CAS 250-20 P)

Jacket

PTFE tape(s)

Diameter = 1.90 +/0.10 mm (CAS 250-20 P)

Diameter = 2.18 +/0.05 mm (CAS 250-22)

IDENTIFICATION

None

STANDARDS

International Nexans specification

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

	CAS 250-20 P	CAS 250-22
Operating voltage	600 V	250 V
Nominal capacitance	90.0 pF/m	90.0 pF/m
Nominal velocity propagation	76%	76%
Dielectric	PTFE	PTFE
Average weigth	8.8 kg/km	11.6 kg/km
Triboelectric low noise level	< 200 µvolts	< 200 µvolts

Operating temperature
−90°C to +200°C

RoHS

Electro magnetic
interference resistance

DIMENSIONS AND WEIGHTS

DESIGNATION	NEXANS REFERENCE	CONDUCTOR				BRAIDS		SHEATH	
		Composition n x diameter (mm)	Nature	Diameter (mm)	Dielectric diameter (mm)	Nb	Nature	Nature	Dielectric diameter (mm)
CAS 250-20 P	87208	1 X 0.30	SPCCS	0.30	1.05 ±0.05	1	SPC	PTFE	1.90 ±0.10
CAS 250-22	87068	1 X 0.30	SPCCS	0.30	0.98 ±0.05	1	SPC	PTFE	2.15 ±0.05

SPC = Silver Plated Copper

STUDY 124401

Oil resistance
Very good resistance to aircraft fluids

General electronic wiring.

Low Noise Transmission Cable 260°C.

CABLE DESIGN

2 cores

Stranded conductor, 19 x 0.203
Nickel plated copper alloy

Insulation

Extruded PTFE Semi-conductive tape = 1.78 mm

Semi-conductor tape nom.

3.74 mm

Glass Fiber fillers

Shield

0.12 mm Nickel plated copper braid,
91% (US) min. coverage = 4.22 mm

0.12 mm Nickel plated copper braid,
91% (US) min. coverage = 4.83 mm

Inner Jacket

Polyimide tape(s), 51% minimum overlap

Outer jacket

Polyimide tape(s), PTFE tape(s),
51% minimum overlap, = 5.20 ± 0.20 mm

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Voltage rating	600 Volts RMS
Insulation resistance	> 10^12 Ω.m
Triboelectrical noise…	…at 2 Hz: Displacement 40 mm pk-pk ≤ 10 pC …from 20 to 50 Hz: Displacement 5 mm pk-pk ≤ 1 pC …from 30 to 90 Hz: Displacement 2 mm pk-pk ≤ 0.15 pC
Capacitance between…	…cores: 100 pF/m …cores and screen: 200 pF/m
Voltage withstanding	…Insulation: 2000 Volts RMS …Jacket: 5000 Volts Impulse

IDENTIFICATION

Color of core: Red, Blue

Color of Jacket: Black

No marking text

STANDARDS

International Nexans specification

Operating temperature
–54°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

Approximate weight: 68.9 g/m

NEXANS REFERENCE	CORE	INSULATION	SEMI CONDUCTOR TAPE	1ST SHIELD		2ND SHIELD	
	Composition n x diameter (mm)	Diameter (mm)	Nom. diameter (mm)	Coverage (%)	Diam. Screen strands (mm)	Coverage (%)	Diam. Screen strands (mm)
STUDY 124401	19 x 0.203	1.78	3.74	91 (=4.22mm)	0.12	91 (=4.83mm)	0.12

INNER JACKET	FINISHED CABLE	
Min. Overlap (%)	Min. Overlap (%)	Diameter (mm)
51	51	5.20 ± 0.20

STUDY 124762 – ESW 1404-022-006

Low Noise Transmission Cable 260°C.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

2 cores

19 x 0.20 mm Nickel plated copper Clad Steel

Insulation

PTFE tape(s) = 1.80 ± 0.10 mm

Semi-conductor tape

PTFE tape(s) insulation = 1.95 mm

Glass Fiber fillers

Shield

Nickel plated copper 12/100,
Coverage factor > 85%

Jacket

Polyimide tape(s), PTFE tape(s),
Min. = 4.50 mm, Max. = 4.80 mm

IDENTIFICATION

Color of core: White, Blue

Color of Jacket: White

Marking text:
ESW1404-022-006-FX-FF-**957.37.20.6999

** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International ESW 1404-022

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Nominal capacitance between cores and shield	310 pF/m
Capacitance unbalance	max. 15.0 pF
Insulation resistance	min. 1000 MΩ.km
Triboelectrical noise…	…at 3 Hz: Displacement 10 mm pk-pk ≤0.3 pC …from 5 to 50 Hz: Displacement 5 mm pk-pk ≤0.3 pC …from 50 to 120 Hz: Displacement 2.5 mm pk-pk ≤0.3 pC
Voltage withstanding between…	…cores: 1500 Volts AC …cores and screen: 1500 Volts AC
Electrical resistance of conductor	≤75.1 Ω/Km at 20°C

Operating temperature
–65°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

Electro magnetic
interference resistance

DIMENSIONS AND WEIGHTS

Maximum weight: 53 g/m

NEXANS REFERENCE	CORES	INSULATION	SEMI CONDUCTOR TAPE	FINISHED CABLE	
	Composition n x diameter (mm)	Diameter (mm)	Diameter (mm)	Min. Diameter	Max. Diameter
STUDY 124762	19x0.20	1.80 ±0.10	1.95	4.50	4.80

STUDY 132057 – ESW 1405-024-006

Over shielded and jacketed low noise transmission cable 260°C.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

2 cores

19 x 0.20 mm nickel plated copper clad steel,
Diameter = 0.99 ± 0.05 mm, Semi-conductor tape

Insulation

PTFE tape(s) = 1.80 ± 0.10 mm

Semi-conductor tape

Nominal Diameter = 1.95 mm

Glass Fiber fillers

Shields

1st Shield: Nickel plated copper 12/100

2nd Shield: Nickel plated copper 12/100

Inner Jacket

Nickel plated copper 12/100

Polyimide tape(s)

Outer Jacket

Polyimide tape(s), PTFE tape(s),
Minimum Diameter = 5.30 mm

IDENTIFICATION

Color of core: White, Blue

Marking text:
ESW1405-024-006-FX-FF-**957.37.20.6899

** = *Year of manufacturing (ie. 14 = 2014)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Nominal capacitance between cores and shield	310 pF/m
Insulation resistance	min. 1000 MΩ.km
Triboelectrical noise…	…at 3 Hz: Displacement 10 mm pk-pk ≤0.1 pC …from 5 to 50 Hz: Displacement 5 mm pk-pk ≤0.1 pC …from 50 to 120 Hz: Displacement 2.5 mm pk-pk ≤0.1 pC
Voltage withstanding between…	…conductors: 1500 Volts AC …conductors and shield: 1500 Volts AC …shields: 500 Volts AC
Electrical resistance	≤75.1 Ω/Km at 20°C

STANDARDS

International ESW 1404-022

Operating temperature
–65°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

Electro magnetic
interference resistance

DIMENSIONS AND WEIGHTS

Maximum weight: 77 g/m

NEXANS REFERENCE	CORES	INSULATION	SEMI CONDUCTOR TAPE	SEMI CONDUCTOR TAPE	FINISHED CABLE
	Composition n x diameter (mm)	Diameter (mm)	Diameter (mm)	Nom. Diameter (mm)	Max. Diameter (mm)
STUDY 132057	19x0.20	1.80 ±0.10	1.95	1.95	5.30

ECS 0828 MQB & ECS 0829 MQD

Oil resistance
Very good resistance to aircraft fluids

Designed for general Purpose Aircraft Wiring Applications, in replacement of AWG.

Multi-cores Shielded and FEP Jacketed cable.
24 ASN-E0642 HU and ASN-E0643 HV.

CABLE DESIGN

Core

Assembly 2 cores of EN 2267-009A

Screen: 0.08 mm Nickel plated copper spiral screen

Jacket: Polyimide Tape, Polyimide Tape

Assembly

Two or Four cores, Polyimide Tape

Screen

Nickel plated copper braid

Jacket

FEP

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Basic Core identification Colors

Two cores: Red, Blue
Four cores: 1 red, 1 blue, 1 Yellow, 1 Green

Color of sheath: White

Marking: EN DR A ++ FRF**

Color: White for Red and Green for Blue core.

Finished Cable identification Color

Outer jacket: White

Marking: ### ++ FRF**

Color: Green

= MQB Pair of pairs, MQD Quad of pairs
++ = AWG
FR = Country of Origin (FR = France)
F = Manufacturer (F = Nexans)
*** = Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International EN 2267-009;EN 2714-013

National ECS 0828 / ECS 0829

Operating temperature
–55°C to +200°C

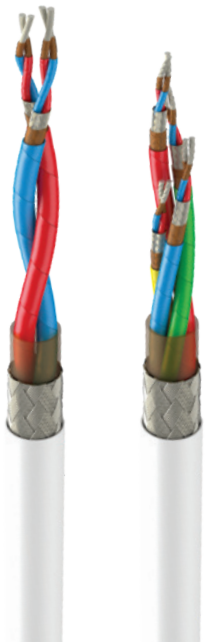
Mould and Fungus Resistant

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	US AWG	Nb of cores	Screen Strands nominal diameter (mm)	COLOR		FINISHED CABLE				
				Cores	Sheath	Diameter (mm)		Weight (g/m)		Max. DC Resistance at 20°C (Ω/km)
						Nom.	Max.	Nom.	Max.	
ECS0828 MQB	24	2	0.12	*1 red, 1 blue*	White	5.16	5.9	44.15	47	117
ECS0829 MQD	24	4	0.12	*1 red, 1 blue, 1 yellow, 1 green*	White	6.29	6.8	70.18	77	117

MQB MQD



MBBN 3320 YH +++
Study 96532 / Study 96533

Cable electric, Nickel chromium /
Nickel aluminium Jacketed, Shielded Twisted pair.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

Conductor

Conductor 1
Stranded conductor Nickel Chromium,
PTFE/Polyimide/PTFE tapes

Conductor 2
Stranded conductor Nickel Chromium,
PTFE/Polyimide/PTFE tapes

Screen

Nickel plated copper braid

Jacket

Polyimide tape, PTFE tape

IDENTIFICATION

Conductor color

Nickel chromium conductor: White

Nickel aluminium conductor: Green

Jacket color

Green (size 006)

Green with narrow white stripe (size 004)

Marking tex: MBBN 3320 YH +++ FR F **

+++ = *Code for nominal section*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F= Nexans)*
** = *Year of manufacturing (ie. 13 = 2013)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Electromagnetic field	10.56 ±0.12 mV at +260°C

STANDARDS

International ISO 8056; prEN 4049004

National MBBN 3320 YH

MBBN 3320 YH +++ – Study 96532 / Study 96533

Operating temperature
–55°C to +260°C

Resistant to fungus

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

Code for nominal section	US AWG	CONDUCTORS		CORES	SCREEN	OHMICAL RESISTANCE AT 20°C				FINISHED CABLE	
		Construction (n x mm)	Nom. Diam. (mm)	Max. Diam. (mm)	Strands diam. (mm)	Nickel Chromium (Ω/km)		Nickel Aluminium (Ω/km)		Max. diam. (mm)	Max. weight (g/m)
						Min.	Max.	Min.	Max.		
004	22	19 x 0.15	0.75	1.45	0.12	1.995	2.411	0.786	0.951	4.00	24.3
006	20	19 x 0.20	1.00	1.67	0.12	1.122	1.357	0.443	0.534	4.55	31.4

HH, HL, HX, HY

HH

Design

FEP sheathed coil cord

3 DR 16 + 3 DR 22 basic wires + 7 PTFE fillers

Sheath: fluoropolymer

Standard

ASNE 0385

HL

Design

FEP sheathed coil cord

6 DR 24 + 2 DR 20 +1 DR 16 basic wire

Sheath: fluoropolymer

Standard

ASNE 0488

HX

Design

Extensible cables for sliding windows

DR multicores

Sheath: fluoropolymer

Standard

ABS 1527

HY

Design

Extensible cables for tablet

DR multicores

Sheath: polyimide

Standard

ABS 1529

ASNE0413 HK

Thermocouple Cable, Nickel chromium / Nickel aluminium Jacketed, Shielded.

Oil resistance
Very good resistance to aircraft fluids

CABLE DESIGN

Cores

Core 1
Solid conductor: Nickel Chromium,
Insulation: PTFE tapes

Core 2
Solid conductor: Nickel Aluminium,
Insulation: PTFE tapes

Assembly

2 cores in parallel

Screen

Nickel plated Copper Braid

Jacket

Polyimide tape, PTFE tape

IDENTIFICATION

Colored threads under the screen

2 threads for manufacturer: i.e.
Black + Grey = Nexans

2 threads for year of manufacturing:
i.e. Black + Pink = 2017

Core color

Nickel aluminium conductor: Black

Nickel chromium conductor: Red

Jacket color

Green

SPECIFICATION

ASNE0413

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

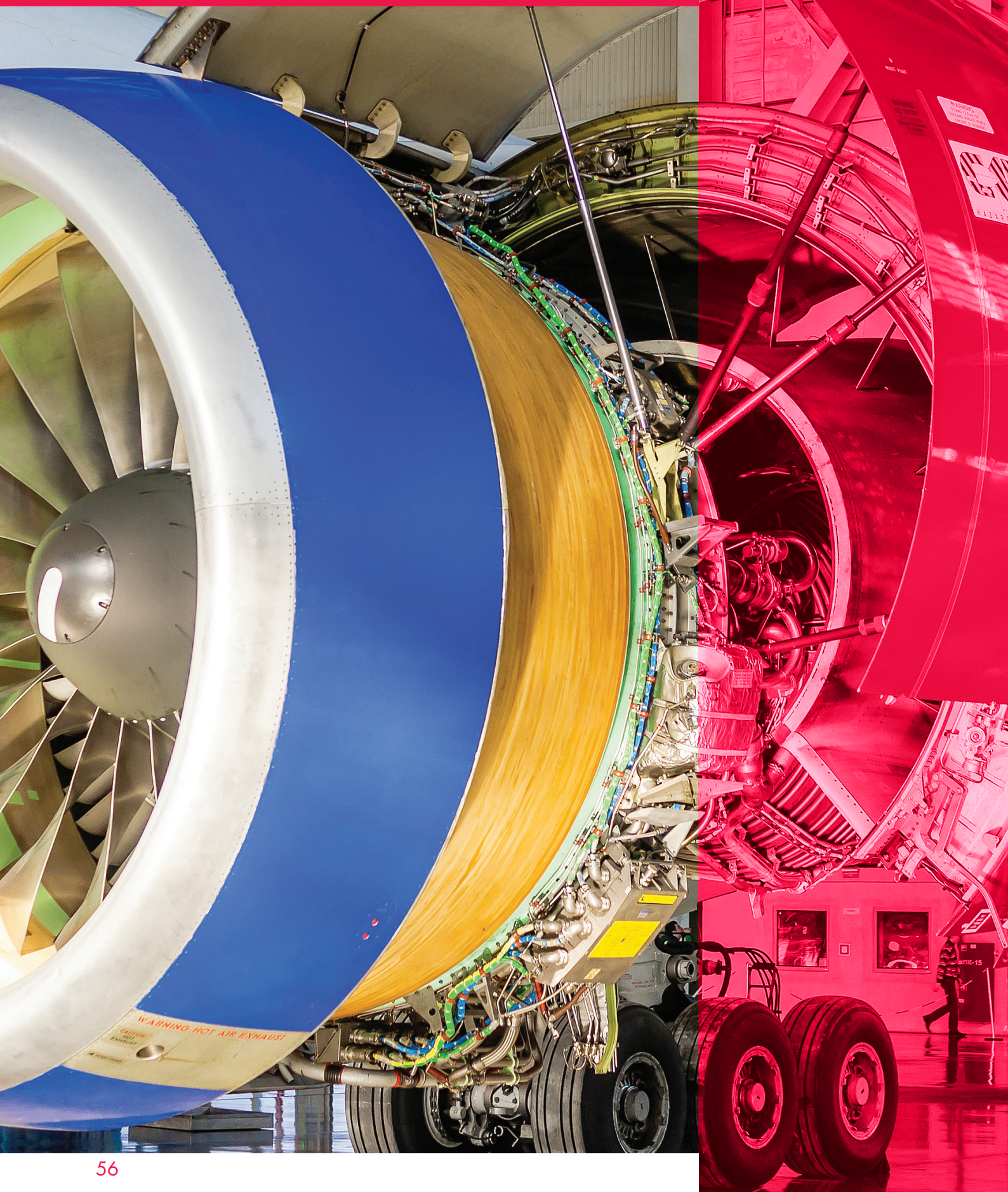
Operating temperature
−55°C to +260°C

Electromagnetic field
4.10 ±0.12 mV at +100°C

DIMENSIONS AND WEIGHTS

NEXANS REFERENCE	CONDUCTORS	CORES	SCREEN	OHMIC RESISTANCE	FINISHED CABLE	
	Nom. diameter (mm)	Diameter (mm)	Strands diam. (mm)	Loop resistance at 20°C (Ω/km)	Max. diameter (mm)	Max. weight (g/m)
STUDY 90951	0.5	1.00 ±0.10	0.1	4860 ±486	2.84 x 1.84	15.00

HIGH TEMPERATURE & FIRE RESISTANT



HIGH TEMPERATURE & FIRE RESISTANT

APPLICATION

Engine & fire zones cables are especially designed to be used in the engine aera, in harsh environment and everywhere the "fire zones", either for security control or power distribution.
Nexans is the unique supplier to offer an arc tracking resistant and fire proof solution for the Aerospace Industry, with the DW product family.

ADVANTAGES

Nexans is committed to improve safety in aerospace by protecting people and fuselage from fire with cables which ensure the integrity of electrical circuits for a certain time after the fire started.
With a better insulation resistance to harsh environment, by the mean of robust designs, Nexans meets the need of the market.

MAIN PROPERTIES

- Very good resistance to onboard fluids.
- Flame retardant.
- Fire resistant (or fireproof) and/or high temperature resistance.
- Enhanced mechanical resistance (abrasion, crush, vibration...).

MAIN CHARACTERISTICS

- Maximum range of operating temperature: −65°C to +310°C.
- Rating voltage:
  115/230 VAC 400Hz tri-phase,
  230/400 VAC 400Hz tri-phase.

STANDARDS

The cables are designed to withstand fire tests according to FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
NFC 32070 C1.
They are conform to various customer specification and/or European Standards "EN" product norms.

9310-N**CA**BL

Oil resistance
Very good resistance to aircraft fluids

Aero engine and high temperature application.

Wire and Jacketed Shielded Cable.

CABLE DESIGN

Conductor

AWG 24, 19 x 0.127 mm (S = 0.24 mm^2)

AWG 22, 19 x 0.16 mm (S = 0.38 mm^2)

Nickel coated high strength copper alloy

Insulation

Polyimide tape, PTFE tape

Screen

Nickel plated copper spiral shield

Jacket

Polyimide Tape, PTFE tape

IDENTIFICATION

Color of cores: White, Red, Blue, Yellow, Green

Color of Jacket: Green for AWG 22
White for AWG 24

Color of marking: Green

Marking text: 9310-N££CA**## F0241 ++++

££ = *Number of Cores*
** = *AWG*
(++++) = *Year of manufacturing*
= *BL (Spiral screen), ( ) Single wire*

STANDARDS

International 448-010-3-10

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS – CORE

AWG	CONDUCTOR			FINISHED WIRE		
	Construction (mm)	Diameter (mm) Nom.	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
24	19 x 0.127	0.61	114	0.96	1.11	3.50
22	19 x 0.16	0.78	60	1.15	1.30	5.40

DIMENSIONS AND WEIGHTS – FINISHED CABLE

NEXANS REFERENCES	AWG	Nb of cores	Screen strand diameter (mm)	DC Resistance of screen at 20°C (Ω/km)		FINISHED CABLE		
						Diameter (mm)		Max. Weight (g/m)
				Nom.	Max.	Min.	Max.	
9310-N01CA24BL	24	1	0.08	107	114	1.30	1.65	7.1
9310-N01CA22BL	22	1	0.08	100	60	1.50	1.80	9.5
9310-N02CA24BL	24	2	0.08	71	117	2.20	2.55	12.4
9310-N02CA22BL	22	2	0.08	56	62	2.60	2.90	18.0
9310-N03CA24BL	24	3	0.10	44	117	2.40	2.70	17.9
9310-N03CA22BL	22	3	0.10	37	62	2.85	3.15	24.9
9310-N04CA24BL	24	4	0.10	38	117	2.65*	2.95*	22.5
9310-N04CA22BL	22	4	0.10	33	62	3.10*	3.45*	31.6

** Nexans Proposal*

10310-N**C*

Oil resistance
Very good resistance to aircraft fluids

Aero engine services applications.

Fire Resistant Cable, Single and Multicores Screened and Jacketed.

CABLE DESIGN

Core

Stranded conductor : Nickel clad copper alloy (AWG 22), Nickel clad copper (AWG 20 to 16)

004: 19 x 0.15 mm, 006: 19 x 0.20 mm,
010: 19 x 0.25 mm, 012: 19 x 0.30 mm

Insulation

Fire resistant insulation, Polyimide Tape, PTFE Tape

Screen

Nickel plated copper braid

Jacket

UV PTFE Tape(s)

IDENTIFICATION

Single core: White with Red stripe

Two cores: White with Red stripe,
White with Blue stripe

Three cores: White with Red stripe,
White with Blue stripe,
White with Yellow stripe

Marking on Jacket: White with Red stripe

Marking text: 10310N0£C# ** BL F0241 ++++

£ = *Number of Cores*
= *A: Nickel clad copper,*
B: Nickel clad copper alloy
++++ = *Year of manufacturing*

STANDARDS

International 448-010-3-10

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Fire resistant
>10 k Ω 15 min

DIMENSIONS AND WEIGHTS

NEXANS REFERENCES	Size code (Nexans)	AWG	Diameter of screen strand (mm)	FINISHED WIRE				
				Nb of cores	Color of cores	Max. Diameter (mm)	Max. Weight (g/m)	Max. DC Resistance of screen at 20°C (Ω/km)
10310-N01CB22BL	004	22	0.10	1	White with red stripe	2.75	15.96	80.9
10310-N01CA20BL	006	20	0.10	1		2.93	19.50	44.3
10310-N01CA18BL	010	18	0.12	1		3.26	25.95	27.9
10310-N01CA16BL	012	16	0.12	1		3.50	31.67	18.8
10310-N02CB22BL	004	22	0.12	2	1 White with red stripe, 1 white with blue stripe	4.40	29.47	82.5
10310-N02CA20BL	006	20	0.12	2		4.80	36.50	45.2
10310-N02CA18BL	010	18	0.12	2		5.30	46.20	28.5
10310-N02CA16BL	012	16	0.12	2		5.80	56.80	19.2
10310-N03CB22BL	004	22	0.12	3	1 White with red stripe, 1 white with blue stripe, 1 White with yellow stripe	4.70	38.65	82.5
10310-N03CA20BL	006	20	0.12	3		5.10	48.80	45.2
10310-N03CA18BL	010	18	0.12	3		5.60	62.70	28.5
10310-N03CA16BL	012	16	0.12	3		6.20	78.00	19.2

BMS 13-55 Type 2 Class 1

Oil resistance
Very good resistance to aircraft fluids

Heavy-duty applications in aero-engines and high temerature areas.

High Temperature and Fire resistant Aero-Engines Wires.

CABLE DESIGN

Cores

Made up with Nickel Clad high strength copper alloy strands

Insulation

Impregnated inorganic fiber, TFE coated glass braid, PTFE tapes (fused)

IDENTIFICATION

Color of cores: White with Red stripe

Marking text: *W55/2/1-** F0241

* = *Specification revision letter*
** = *AWG*

STANDARDS

National BMS 13-55

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Fire resistant
BMS 13-55 & **M25038**

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

PART NUMBER	AWG	CONDUCTOR				FINISHED WIRE				
		Strands Nb strands x diam. of strands (mm)	Diameter (mm)		Nominal Area (mm^2)	Max. DC Resistance at 20°C (Ω/km)	Diameter (mm)		weight (g/m)	
			Nom.	Max.			Min.	Max.	Min.	Max.
BMS 13-55 T02 C01 G022	22	19 x 0.16	0.79	0.84	0.38	80.81	2.08	2.29	8.97	10.6
BMS 13-55 T02 C01 G020	20	19 x 0.20	0.99	1.04	0.62	50.10	2.24	2.46	11.32	12.72
BMS 13-55 T02 C01 G018	18	19 x 0.25	1.24	1.32	0.96	32.05	2.44	2.67	14.88	16.68
BMS 13-55 T02 C01 G016	16	19 x 0.287	1.40	1.55	1.23	25.13	2.62	2.84	17.96	20.34
BMS 13-55 T02 C01 G014	14	19 x 0.36	1.78	1.88	1.94	16.31	2.97	3.25	25.79	28.96
BMS 13-55 T02 C01 G012	12	19 x 0.45	2.24	2.36	3.09	10.50	3.78	4.17	41.14	45.47
BMS 13-55 T02 C01 G010	10	7 x 7 x 0.36	3.10	3.25	5.02	6.33	4.65	5.08	63.60	70.29

BMS 13-58

Oil resistance
Very good resistance to aircraft fluids

UV Laser printable Wire, High Temperature Aircraft Wire.

Designed for general purpose aircraft wiring where exposure to thermal changes corrosive fluids is normal.

CABLE DESIGN

Cores

Nickel Coated Copper (type 1),
Nickel Coated High Strength Copper Alloy (type 5)

Insulation

PTFE Tape, Polyimide Tape,
PTFE Coated Glass Tape (AWG 8 to 4/0 only),
PTFE Coated Glass Braid

UV PTFE Tapes Jacket

Product Range

Shielded and Jacketed:
T03, T07, T09 cables are available upon request

Shielded: T02, T06 cables are available upon request

Jacketed: T04, T08 cables are available upon request

IDENTIFICATION

Color: White

Marking text: BMS13-58T0*C01G0xx + FO241

* = *Wire Type*
xx = *AWG*
\+ = *Specification Revision Letter*

STANDARDS

National BMS 13-58

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Abrasion resistance
Good

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

PART NUMBER	AWG	CONDUCTOR			FINISHED WIRE				
		Strands Nb strands x diam. of strands (mm)	Diameter (mm)		Resistance at 20°C (Ω/km)	Diameter (mm)		Weight (g/m)	
			Nom.	Max.		Min.	Max.	Min.	Max.
BMS 13-58 Type 1									
BMS13-58T1C01	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.40	7.23
BMS13-58T1C01	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS13-58T1C01	20	19 x 0.20	0.94	1.04	32.1	2.03	2.18	9.73	11.55
BMS13-58T1C01	18	19 x 0.25	1.17	1.30	22	2.31	2.46	13.91	16.07
BMS13-58T1C01	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05
BMS13-58T1C01	14	19 x 0.36	1.65	1.85	9.84	2.77	2.97	24.10	26.93
BMS13-58T1C01	12	37 x 0.32	2.13	2.29	6.5	3.25	3.45	34.60	38.69
BMS13-58T1C01	10	37 x 0.40	2.69	2.90	4.07	3.71	4.01	51.34	57.88
BMS13-58T1C01	8	19 x 7 x 0.287	4.01	4.39	2.28	5.46	5.77	94.04	106.84
BMS13-58T1C01	6	19 x 7 x 0.360	5.03	5.51	1.43	6.38	7.14	138.23	161.75
BMS13-58T1C01	4	19 x 7 x 0.455	6.35	6.96	0.902	7.77	8.64	217.54	254.15
BMS13-58T1C01	2	19 x 35 x 0.254	8.13	8.64	0.581	9.83	10.49	348.04	401.46
BMS13-58T1C01	1/0	19 x 55 x 0.254	10.03	10.80	0.371	11.79	12.6	510.23	610.53
BMS13-58T1C01	2/0	19 x 70 x 0.254	11.18	12.07	0.292	12.88	14.15	566.18	765.58
BMS13-58T1C01	3/0	37 x 45 x 0.254	12.70	13.72	0.233	14.17	15.44	793.10	941.90
BMS13-58T1C01	4/0	37 x 57 x 0.254	14.35	15.37	0.184	15.95	17.25	1031.63	1125.23
BMS 13-58 Type 5									
BMS13-58T5C01	24	19 x 0.127	0.58	0.66	98.8	1.75	1.91	6.4	7.23
BMS13-58T5C01	22	19 x 0.16	0.74	0.84	61.0	1.85	2.01	7.89	8.72
BMS13-58T5C01	20	19 x 0.20	0.94	1.04	37.4	2.03	2.18	9.73	11.55
BMS13-58T5C01	18	19 x 0.25	1.17	1.30	23.6	2.31	2.46	13.91	16.07
BMS13-58T5C01	16	19 x 0.30	1.32	1.47	18.4	2.41	2.62	17.26	19.05

BMS 13-67

Oil resistance
Very good resistance to aircraft fluids

Aero engines and very high temperature applications.
Fire resistant cable.

Very High Temperatures Fire Resistant, Shielded and Jacketed Cables.
Operating temperature : 20,000 hours at +313°C
or 10,000 hours at +321°C.

CABLE DESIGN

Cores

Nickel clad high strength copper alloy

Insulation

Very high temperature,
Fire resistant insulation,
High temperature PTFE tapes,
PTFE coated fiber glass braid

Braid

Nickel clad copper shield

Jacket

High temperature PTFE tapes,
PTFE coated fiber glass braid

IDENTIFICATION

None

STANDARDS

National BMS 13-67

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Fire resistant

Operating temperature
Max. +310°C

Minimum bending radius,
fixed installation
5 (xD)

RoHS

DIMENSIONS AND WEIGHTS – CORE

Only for use as BMS 13-67 T02 Core

PART NUMBER	AWG	CONDUCTOR			FINISHED WIRE				
		Strands Nb strands x diam. of strands (mm)	Diameter (mm)		Diameter (mm)		Nom. Weight (g/m)	Max. DC Resistance (Ω/km)	
			Nom.	Max.	Min.	Max.		at 23°C	at 370°C
BMS 13-67 T02 Core									
BMS13-67T0*C01G022	22	37 x 0.115	0.78	0.84	2.49	2.61	11.33	80.8	192.59
BMS13-67T0*C01G020	20	7 x 7 x 0.115	1.04	1.04	2.65	2.78	12.72	50.1	118.37
BMS13-67T0*C01G018	18	7 x 7 x 0.150	1.32	1.32	2.91	3.03	16.70	32.0	74.28
BMS13-67T0*C01G016	16	7 x 7 x 0.175	1.55	1.55	3.10	3.22	20.11	25.1	55.77
BMS13-67T0*C01G014	14	7 x 7 x 0.210	1.88	1.88	3.38	3.52	25.52	16.30	36.09
BMS13-67T0*C01G012	12	7 x 7 x 0.270	2.36	2.36	3.92	4.04	37.21	10.50	23.23
BMS13-67T0*C01G010	10	7 x 7 x 0.360	3.25	3.25	4.78	4.92	59.90	6.34	14.01

** wire type*

DIMENSIONS AND WEIGHTS – FINISHED CABLE

PART NUMBER	AWG	CONDUCTOR				FINISHED WIRE					
		Nb of cores	Overall Diameter (mm)		Max. DC Resistance at 23°C of cores (Ω/km)	Diameter (mm)			Weight (g/m)		
			Strands	Nom.		Min.	Nom.	Max.	Min.	Nom.	Max.
BMS13-67T02C01G022	22	1	0.13	3.01	80.8	3.53	3.71	3.89	27.83	29.60	31.37
BMS13-67T02C01G020	20	1	0.13	3.17	50.1	3.66	3.87	4.06	30.03	31.95	33.87
BMS13-67T02C01G018	18	1	0.13	3.43	32.0	4.04	4.18	4.34	35.77	38.06	40.34
BMS13-67T02C01G016	16	1	0.13	3.62	25.1	4.19	4.36	4.55	39.51	42.02	44.55
BMS13-67T02C01G014	14	1	0.13	3.90	16.3	4.47	4.68	4.88	47.62	50.12	52.63
BMS13-67T02C01G012	12	1	0.13	4.44	10.5	5.03	5.19	5.33	61.6	64.85	68.09
BMS13-67T02C01G010	10	1	0.13	5.30	6.34	5.87	6.04	6.22	87.99	92.61	97.26
BMS13-67T02C02G022	22	2	0.13	5.50	82.4	6.02	6.32	6.63	59.64	52.81	55.98
BMS13-67T02C02G020	20	2	0.13	5.82	51.1	6.30	6.62	6.96	53.61	57.04	60.46
BMS13-67T02C02G018	18	2	0.13	6.34	32.7	6.86	7.13	7.42	63.64	67.70	71.77
BMS13-67T02C02G016	16	2	0.13	6.72	25.6	7.21	7.52	7.82	72.12	76.74	81.33
BMS13-67T02C02G014	14	2	0.13	7.28	16.6	7.77	8.10	8.43	86.44	90.99	95.53
BMS13-67T02C03G022	22	3	0.13	5.89	82.4	6.35	6.68	7.01	64.74	68.86	73.00
BMS13-67T02C03G020	20	3	0.13	6.23	51.1	6.65	7.02	7.37	70.58	75.08	79.59
BMS13-67T02C03G018	18	3	0.13	6.79	32.7	7.29	7.60	7.90	85.37	90.81	96.26
BMS13-67T02C03G016	16	3	0.13	7.20	25.6	7.67	8.00	8.33	97.12	103.31	109.52
BMS13-67T02C03G014	14	3	0.13	7.80	16.6	8.28	8.60	8.94	117.08	123.24	129.41
BMS13-67T02C04G022	22	4	0.13	6.53	82.4	6.99	7.34	7.70	80.5	85.63	90.77
BMS13-67T02C04G020	20	4	0.13	6.92	51.1	7.34	7.71	8.10	87.78	93.39	98.98
BMS13-67T02C04G018	18	4	0.13	7.54	32.7	8.00	8.34	8.66	106.51	113.31	120.11
BMS13-67T02C04G016	16	4	0.13	8.00	25.6	8.43	8.80	9.14	122.21	130.01	137.80
BMS13-67T02C04G014	14	4	0.13	8.68	16.6	9.09	9.47	9.86	148.19	156.00	163.80

EN 2346-005 DW - DWB - DWC

Oil resistance
Very good resistance to aircraft fluids

Use in the onboard electrical systems of aircraft.

Fireproof Cables, Single and Multicore Assembly Light Weight.

CABLE DESIGN

Core

Stranded conductor,
Nickel clad copper alloy for size 24 and 22, Nickel clad copper for other sizes

Insulation

Fireproof insulation,
Polyimide tape,
PTFE tape,
UV laser markable (for single core)

IDENTIFICATION

Colors of cores

1 core: white with helical red stripe

2 cores: white with helical red / blue stripe

3 cores: white with helical red / blue / yellow stripe

Marking text: EN DW ++ FR F** for single core
EN DW A ++ FR F** for multicore

DW = *short designation*
++ = *AWG*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

International EN 2346-005

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Fire resistant
>10k Ω 15 min

HIGH TEMPERATURE & FIRE RESISTANT
EN 2346-005 DW - DWB - DWC

DIMENSIONS AND WEIGHTS

REFERENCE	Nb of cores	Size code (AECMA)	AWG	Max. DC Resistance at 20°C (Ω/km)	FINISHED CABLE		
					Diameter (mm)		Max. Weight (g/m)
					Min.	Max.	
EN 2346-005A 002	1	002	24	131.0	1.53	1.68	5.00
EN 2346-005A 004	1	004	22	80.9	1.59	1.80	6.66
EN 2346-005A 006	1	006	20	44.3	1.89	2.11	10.61
EN 2346-005A 010	1	010	18	27.9	2.34	2.54	16.45
EN 2346-005A 012	1	012	16	18.8	2.50	2.70	20.35
EN 2346-005A 020	1	020	14	13.9	2.95	3.25	28.02
EN 2346-005A 030	1	030	12	8.9	3.48	3.80	42.31
EN 2346-005B 002	2	002	24	133.6	–	3.36	10.30
EN 2346-005B 004	2	004	22	82.5	–	3.60	13.72
EN 2346-005B 006	2	006	20	45.2	–	4.22	21.86
EN 2346-005B 010	2	010	18	28.5	–	5.08	33.89
EN 2346-005B 012	2	012	16	19.2	–	5.40	41.92
EN 2346-005B 020	2	020	14	14.2	–	6.50	57.72
EN 2346-005B 030	2	030	12	9.1	–	7.60	87.16
EN 2346-005C 002	3	002	24	133.6	–	3.61	15.45
EN 2346-005C 004	3	004	22	82.5	–	3.87	20.58
EN 2346-005C 006	3	006	20	45.2	–	4.54	32.79
EN 2346-005C 010	3	010	18	28.5	–	5.46	50.83
EN 2346-005C 012	3	012	16	19.2	–	5.81	62.88
EN 2346-005C 020	3	020	14	14.2	–	6.99	86.58
EN 2346-005C 030	3	030	12	9.1	–	8.17	130.74

DW DWB DWC

ESW 1200-010-XXX / ESW 1201-010-XXX

Oil resistance
Very good resistance to aircraft fluids

Aero engine services applications.

Fire Resistant Cable Single Core.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy (ESW1200),
Nickel clad copper (ESW1201)

Insulation

Fire resistant insulation,
Polyimide tape,
PTFE tape

IDENTIFICATION

Color of core: White with a helical red stripe

Marking text: ESW 1200-010-xxx-FX-FF-**
ESW 1201-010-xxx-FX-FF-**

xxx = *Size Code,*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

National ESW 1201-010; ESW 1200-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	Size code (AECMA)	AWG	Max. DC Resistance at 20°C (Ω/km)	FINISHED CABLE		
				Diameter (mm)		Max. Weight (g/m)
				Min.	Max.	
ESW1200-010						
ESW1200-010-004	004	22	95	1.45	1.85	8.4
ESW1200-010-006	006	20	51.1	1.60	2.00	10.5
ESW1200-010-010	010	18	32.7	1.90	2.32	14.4
ESW1200-010-012	012	16	25.6	2.10	2.57	18.7
ESW1201-010						
ESW1201-010-004	004	22	87.9	1.45	1.85	8.4
ESW1201-010-006	006	20	43.6	1.60	2.00	10.5
ESW1201-010-010	010	18	27.9	1.90	2.32	14.4
ESW1201-010-012	012	16	21.9	2.10	2.57	18.7

ESW 1202-+++-XXX / ESW 1203-+++-XXX

Oil resistance
Very good resistance to aircraft fluids

Aero engine services applications.

Fire Resistant Cable, Single and Multi-cores Screened and Jacketed.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy (ESW 1202),
Nickel clad copper (ESW 1203)

004: 19 x 0.15 mm,
006: 19 x 0.20 mm,
010: 19 x 0.25 mm,
012: 19 x 0.30 mm

Insulation

Fire resistant insulation,
Polyimide Tape,
PTFE Tape

Screen

Nickel plated copper braid

Jacket

PTFE tape(s)

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

IDENTIFICATION

Core identification

Single core: White

Two cores: Red, Blue

Three cores: Red, Blue, Yellow

Four cores: Red, Blue, Yellow, Green

Jacket identification

Color: White with narrow red stripe

Marking text: ESW1202-+++-xxx-FX-FF-**
ESW1203-+++-xxx-FX-FF-**

+++ = *Form code*
xxx = *Size code*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

National ESW 1203; ESW 1202

RoHS

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Size code (AECMA)	Nb of cores	Colors of cores	FINISHED CABLE			
					Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
ESW 1202-+++-XXX								
ESW1202-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1202-012-006	20	006	1		51.1	2.65	3.35	28.3
ESW1202-012-010	18	010	1		32.7	2.90	3.60	34.0
ESW1202-012-012	16	012	1		25.6	3.15	3.90	40.5
ESW1202-022-004	22	004	2	1 Red, 1 Blue	96.9	3.89	5.35	43.5
ESW1202-022-006	20	006	2		52.1	4.21	5.64	50.6
ESW1202-022-010	18	010	2		33.4	4.70	6.00	60.3
ESW1202-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1202-032-004	22	004	3	1 Red, 1 Blue, 1 Yellow	96.9	4.10	5.65	55.7
ESW1202-032-006	20	006	3		52.1	4.40	5.97	67.0
ESW1202-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1202-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1202-042-004	22	004	4	1 Red, 1 Blue, 1 Yellow, 1 Green	96.9	4.55	5.95	66.5
ESW1202-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1202-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1202-042-012	16	012	4		26.1	6.29	7.50	115.0
ESW 1203-+++-XXX								
ESW1203-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1203-012-006	20	006	1		43.6	2.65	3.35	28.3
ESW1203-012-010	18	010	1		27.9	2.90	3.60	34.0
ESW1203-012-012	16	012	1		21.9	3.15	3.90	40.5
ESW1203-022-004	22	004	2	1 Red, 1 Blue	89.66	3.89	5.35	43.5
ESW1203-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1203-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1203-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1203-032-004	22	004	3	1 Red, 1 Blue, 1 Yellow	89.66	4.10	5.65	55.7
ESW1203-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1203-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1203-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1203-042-004	22	004	4	1 Red, 1 Blue, 1 Yellow, 1 Green	89.66	4.55	5.95	66.5
ESW1203-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1203-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1203-042-012	16	012	4		22.34	6.29	7.50	115.0

ESW 1250-010-XXX / ESW 1251-010-XXX

Oil resistance
Very good resistance to aircraft fluids

Use in essential services.

Fireproof Cable, Single Core.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy (ESW1250),
Nickel clad copper (ESW1251)

Insulation

Fire resistant insulation,
Polyimide tape,
PTFE tape

IDENTIFICATION

Core identification: White with a helical red stripe

Marking text: ESW 1250-010-xxx-FX-FF-**
ESW 1251-010-xxx-FX-FF-**

xxx = *Size Code,*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

National ESW 1251-010; ESW 1250-010

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

REFERENCE	Size code (AECMA)	AWG	Max. DC Resistance at 20°C (Ω/km)	FINISHED CABLE		
				Diameter (mm)		Max. Weight (g/m)
				Min.	Max.	
ESW1250-010						
ESW1250-010-004	004	22	95	1.45	1.85	10.4
ESW1250-010-006	006	20	51.1	1.60	2.00	13.0
ESW1250-010-010	010	18	32.7	1.90	2.32	17.0
ESW1250-010-012	012	16	25.6	2.10	2.57	22.0
ESW1251-010						
ESW1251-010-004	004	22	87.9	1.45	1.85	10.4
ESW1251-010-006	006	20	43.6	1.60	2.00	13.0
ESW1251-010-010	010	18	27.9	1.90	2.32	17.0
ESW1251-010-012	012	16	21.9	2.10	2.57	22.0

ESW 1252-+++-XXX / ESW 1253-+++-XXX

Oil resistance
Very good resistance to aircraft fluids

Use in essential services.

Fireproof Cable, Single and Multi-cores Screened and Jacketed.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy (ESW 1252),
Nickel clad copper (ESW 1253)

004: 19 x 0.15 mm,
006: 19 x 0.20 mm,
010: 19 x 0.25 mm,
012: 19 x 0.30 mm

Insulation

Fire resistant insulation,
Polyimide Tape,
PTFE Tape

Screen

Nickel plated copper braid

Jacket

PTFE tape(s)

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

IDENTIFICATION

Core identification

Single core: White

Two cores: Red, Blue

Three cores: Red, Blue, Yellow

Four cores: Red, Blue, Yellow, Green

Jacket identification

Color: White with narrow red stripe

Marking text: ESW1252-+++-xxx-FX-FF-**
ESW1253-+++-xxx-FX-FF-**

+++ = *Form code*
xxx = *Size code*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

National ESW 1253; ESW 1252

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Size code (AECMA)	Nb of cores	Colors of cores	FINISHED CABLE			
					Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
ESW 1252-+++-XXX								
ESW1252-012-004	22	004	1	White	95.0	2.40	3.25	22.5
ESW1252-012-006	20	006	1		51.1	2.65	3.50	30.0
ESW1252-012-010	18	010	1		32.7	2.90	3.80	36.0
ESW1252-012-012	16	012	1		25.6	3.15	4.10	38.0
ESW1252-022-004	22	004	2	1 Red, 1 Blue	96.9	3.89	5.35	40.0
ESW1252-022-006	20	006	2		52.1	4.21	5.64	48.0
ESW1252-022-010	18	010	2		33.4	4.70	6.00	59.0
ESW1252-022-012	16	012	2		26.1	5.20	6.50	72.8
ESW1252-032-004	22	004	3	1 Red, 1 Blue, 1 Yellow	96.9	4.10	5.65	52.0
ESW1252-032-006	20	006	3		52.1	4.40	5.97	62.0
ESW1252-032-010	18	010	3		33.4	5.16	6.40	81.0
ESW1252-032-012	16	012	3		26.1	5.54	6.80	94.0
ESW1252-042-004	22	004	4	1 Red, 1 Blue, 1 Yellow, 1 Green	96.9	4.55	5.95	66.5
ESW1252-042-006	20	006	4		52.1	4.92	6.30	76.3
ESW1252-042-010	18	010	4		33.4	5.69	7.00	98.9
ESW1252-042-012	16	012	4		26.1	6.29	7.50	115.0
ESW 1253-+++-XXX								
ESW1253-012-004	22	004	1	White	87.9	2.40	3.25	22.5
ESW1253-012-006	20	006	1		43.6	2.65	3.50	33.4
ESW1253-012-010	18	010	1		27.9	2.90	3.80	40.12
ESW1253-012-012	16	012	1		21.9	3.15	4.10	47.8
ESW1253-022-004	22	004	2	1 Red, 1 Blue	89.66	3.89	5.35	43.5
ESW1253-022-006	20	006	2		44.47	4.21	5.64	50.6
ESW1253-022-010	18	010	2		28.46	4.70	6.00	60.3
ESW1253-022-012	16	012	2		22.34	5.20	6.50	72.8
ESW1253-032-004	22	004	3	1 Red, 1 Blue, 1 Yellow	89.66	4.10	5.65	55.7
ESW1253-032-006	20	006	3		44.47	4.40	5.97	67.0
ESW1253-032-010	18	010	3		28.46	5.16	6.40	81.0
ESW1253-032-012	16	012	3		22.34	5.54	6.80	94.0
ESW1253-042-004	22	004	4	1 Red, 1 Blue, 1 Yellow, 1 Green	89.66	4.55	5.95	66.5
ESW1253-042-006	20	006	4		44.47	4.92	6.30	76.3
ESW1253-042-010	18	010	4		28.46	5.69	7.00	98.9
ESW1253-042-012	16	012	4		22.34	6.29	7.50	115.0

ESW 1254-010-002

Oil resistance
Very good resistance to aircraft fluids

Use in Aero engine services.

Fireproof Cable, Two or Three-cores
Twisted Screened and Jacketed.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy

002: 19 x 0.12 mm

Insulation

Fireproof insulation,,
Polyimide tape,
PTFE tape

IDENTIFICATION

Core identification: White with a helical red stripe

Marking text: ESW1254-010-002-FX-FF-**

FX = *Country of origin*
FF = *Manufaturer's code*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

National ESW 1254-010-002

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Size code	FINISHED CABLE			
			Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Max. Weight (g/m)
ESW1254-010-002	24	002	131	1.20	1.65	9.50

ESW 1254-022-002 / ESW 1254-032-002

Oil resistance
Very good resistance to aircraft fluids

Use in Aero engine services.

Fireproof Cable, Two or Three-cores
Twisted Screened and Jacketed.

CABLE DESIGN

Cores

Stranded conductor,
Nickel clad copper alloy

002: 19 x 0.12 mm

Insulation

Fire resistant insulation,
Polyimide tape,
PTFE tape

Screen

Nickel plated copper braid

Jacket

PTFE tape(s)

IDENTIFICATION

Core identification

Two cores (022): Red,Blue

Three cores (032): Red,Blue,Yellow

Jacket identification

Color: White with narrow red stripe

Marking text: ESW1254-022-002-FX-FF-**

FX = *Country of origin*
FF = *Manufaturer's code*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

National ESW 1254-022-002; ESW 1254-032-002

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Size code	Nb of cores	Colors of cores	FINISHED CABLE				
					Max. DC Resistance at 20°C (Ω/km)	Diameter (mm) Min.	Diameter (mm) Max.	Nom. Weight (g/m)	Max. Weight ESW/Spec. (g/m)
ESW1254-022-002	24	002	2	1 Red, 1 Blue	135	2.95	4.45	25	38
ESW1254-032-002	22	002	3	1 Red, 1 Blue, 1 Yellow	135	3.50	4.75	31	37

ESW 1602-022-XXX

Oil resistance
Very good resistance to aircraft fluids

Aero engine services applications.

Fire Resistant Cable, Thermocouple Nickel Chromium / Alumium.

CABLE DESIGN

Cores

Stranded conductor,
Nickel Chromium / Nickel Aluminium

006: 19x0.20 mm
010: 19x0.25 mm
012: 19x0.30 mm
050: 61x0.32 mm

Insulation

Fire resistant,
Polyimide tape,
PTFE tape

Screen

Nickel plated copper braid

Jacket

PTFE tape(s)

IDENTIFICATION

Core identification

Nickel chromium: White

Nickel aluminium: Green

Jacket identification

Color: Green with red stripe

Marking text: ESW1602-022-xxx-FX-FF-**

FX = *Country of origin*
FF = *Manufaturer's code*
** = *Year of production (ie. 14 = 2014)*

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

STANDARDS

National ESW 1602-022

Operating temperature
−65°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

REFERENCE	AWG	Size code	FINISHED CABLE						
			DC Resistance at 20°C (Ω/km)				Diameter (mm)		Max. Weight (g/m)
			Nickel Chromium		Nickel Aluminium				
			Min.	Max.	Min.	Max.	Min.	Max.	
ESW1602-022-006	20	006	1122	1357	443	534	4.40	5.64	50.6
ESW1602-022-010	18	010	719	868	283	343	4.70	6.00	60.3
ESW1602-022-012	16	012	499	603	197	239	5.20	6.50	72.8
ESW1602-022-050	10	050	136	165	53	65	7.50	9.50	148.8

TYPE TMF

Oil resistance
Very good resistance to aircraft fluids

Heavy duty applications in aeroengines and high temperature areas.

High Temperature and Fire Resistant Aero-Engines Wires.

CABLE DESIGN

Conductor

Stranded of Nickel clad copper conductor

Insulation

Special Fire Resistant,
Composite Insulation,
PTFE tape(s)

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

IDENTIFICATION

Colour of cable: White

Marking colour: Green

Marking text:
TMF +++ G** F0241

+++ = mm^2 size

** = *AWG size*

STANDARDS

Designed according to MIL-W-25038/1

Operating temperature
−65°C to +260°C

Fire resistant
MIL-W-25038

DIMENSIONS AND WEIGHTS

PART NUMBER	US AWG	CONDUCTOR			FINISHED WIRE			
		Strands (Nb/AWG)	Diameter (mm)		Max. Resistance at 20°C (Ω/km)	Diameter (mm)		Nom. Weight (kg/km)
			Nom.	Max.		Nom.	Max.	
TMF 0.38 G22	22	19 x 0.160	0.78	0.84	77.8	2.54	2.94	14.9
TMF 0.61 G20	20	19 x 0.203	0.98	1.04	47.9	2.77	3.17	17.9
TMF 0.93 G18	18	19 x 0.254	1.22	1.32	30.0	3.03	3.43	22.3
TMF 1.22 G16	16	19 x 0.287	1.40	1.55	22.5	3.23	3.73	28.3
TMF 1.94 G14	14	19 x 0.361	1.76	1.88	14.8	3.81	4.31	37.2
TMF 3.08 G12	12	19 x 0.455	2.20	2.36	9.12	4.20	4.70	52.1
TMF 5.00 G10	10	7 x 7 x 0.360	3.09	3.25	5.51	5.30	5.84	81.8
TMF 8.60 G8	8	19 x 7 x 0.287	4.05	4.47	3.07	6.50	7.12	127
TMF 13.60 G6	6	19 x 7 x 0.361	5.09	5.54	1.94	8.10	8.69	189
TMF 21.60 G4	4	19 x 7 x 0.455	6.42	6.91	1.23	9.70	10.4	286
TMF 33.70 G2	2	19 x 35 x 0.254	8.01	8.76	0.790	11.7	12.3	433
TMF 41.40 G1	1	19 x 43 x 0.254	8.88	9.75	0.643	12.6	13.6	516
TMF 53.00 G0	0	19 x 55 x 0.254	10.04	10.97	0.502	13.6	14.6	618
TMF 67.40 G00	00	19 x 70 x 0.254	11.33	12.45	0.394	15.1	16.1	774
TMF 84.70 G000	000	37 x 46 x 0.254	12.82	13.92	0.315	16.8	17.8	964
TMF 107.80 G0000	0000	37 x 57 x 0.254	14.27	15.62	0.253	18.5	19.6	1180

TYPE TMF-VRA-US-SJ / TMF-VR-US-SJ

Oil resistance
Very good resistance to aircraft fluids

Aero engines and high temperature applications.

High Temperature Fire Resistant Shielded and Jacketed Cables.

CABLE DESIGN

Conductor

TMF VRA-US Nickel Clad High Strength Copper Alloy Conductor (for AWG 26 to 20)

TMF VR-US Nickel Clad Copper Conductor (for other size)

Screen

Nickel coated copper braided screen

Jacket

PTFE tapes

IDENTIFICATION

Core identification

Single core:

White with Black marking : TMF VR@-US #SJ ** F0241

Two cores:

White with Green marking - Blue with White marking

Three cores:

White with Green marking - Blue with White marking - Orange with Green marking

Marking text: TMF VR@-US ** F0241

Marker tape placed beneath the shield.

Marking text: TMF VR@-US #SJ ** F0241

 # = Number of Cores
@ = A : Nickel clad high strength copper alloy
*** = AWG*

Colour of Jacket: White.

STANDARDS

Designed according to MIL-DTL-25038/3; MIL-DTL-27500

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Fire resistant
MIL-W-25038

DIMENSIONS AND WEIGHTS

PART NUMBER	US AWG	Nb of cores	SCREEN		FINISHED CABLE				
			Strands (mm)	Nom. Overall Diameter (mm)	Max. Resistance at 20°C of cores (Ω/km)	Diameter (mm)		Weight (kg/km)	
						Nom.	Max.	Nom.	Max.
TMF VRA-US 1 SJ 26	26	1	0.10	1.45	197.18	2.09	2.19	10.02	10.52
TMF VRA-US 1 SJ 24	24	1	0.10	1.60	124.67	2.24	2.35	11.89	12.48
TMF VRA-US 1 SJ 22	22	1	0.10	1.76	77.78	2.40	2.52	14.21	14.92
TMF VRA-US 1 SJ 20	20	1	0.13	2.47	50.1	3.11	3.23	23.74	24.69
TMF VR-US 1 SJ 18	18	1	0.13	2.69	28.00	3.33	3.46	28.53	29.67
TMF VR-US 1 SJ 16	16	1	0.13	2.87	21.9	3.51	3.65	32.69	33.99
TMF VRA-US 2 SJ 26	26	2	0.13	2.62	201.12	3.26	3.42	17.97	18.87
TMF VRA-US 2 SJ 24	24	2	0.13	2.92	127.16	3.56	3.74	21.7	22.79
TMF VRA-US 2 SJ 22	22	2	0.13	3.24	79.40	3.88	4.07	26.34	27.65
TMF VRA-US 2 SJ 20	20	2	0.13	4.42	51.10	5.06	5.26	40.86	42.5
TMF VR-US 2 SJ 18	18	2	0.13	4.86	28.60	5.50	5.72	50.12	52.12
TMF VR-US 2 SJ 16	16	2	0.13	5.22	22.30	5.86	6.09	58.180	60.51
TMF VRA-US 3 SJ 26	26	2	0.13	2.78	201.12	3.42	3.59	22.48	23.61
TMF VRA-US 3 SJ 24	24	3	0.13	3.11	127.16	3.74	3.93	27.64	29.03
TMF VRA-US 3 SJ 22	22	3	0.13	3.45	79.40	4.09	4.29	34.14	35.85
TMF VRA-US 3 SJ 20	20	3	0.13	4.72	51.10	5.36	5.57	54.25	56.42
TMF VR-US 3 SJ 18	18	3	0.13	5.20	28.60	5.83	6.07	67.5	70.2
TMF VR-US 3 SJ 16	16	3	0.13	5.58	22.30	6.22	6.47	79.09	82.25

TYPE TMF VRA-US / TMF VR-US

Oil resistance
Very good resistance to aircraft fluids

Heavy duty applicatrions in Aero-engines and high temperature areas.

High Temperature Fire Resistant Cables.

CABLE DESIGN

Conductor

TMF-VRA-US Nickel clad high strength copper alloy conductor (for AWG 22, 22H and 20)

TMF-VR-US Nickel clad copper conductor (for other sizes)

Insulation

Special Fire Resistant composite Insulation, PTFE tape(s)

IDENTIFICATION

Color of cable: White

Marking color: Green

Marking text: TMF VR@-US ** F0241

** = *AWG size*
@ = *A : Nickel clad high strength copper alloy*

STANDARDS

Designed according to MIL-DTL-25038/3

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−65°C to +260°C

Fire resistant
MIL-W-25038

DIMENSIONS AND WEIGHTS

PART NUMBER	US AWG	CONDUCTOR			FINISHED WIRE			
		Strands nb x diam. (mm)	Diameter (mm)		Max. Resistance at 20°C (Ω/km)	Diameter (mm)		Max. Weight (kg/km)
			Nom.	Max.		Nom.	Max.	
TMF VRA-US 22	22	19 x 0.160	0.78	0.84	77.8	1.02	1.37	6.18
TMF VRA-US 22H	22	19 x 0.160	0.78	0.84	77.8	1.40	1.91	8.93
TMF VRA-US 20	20	19 x 0.203	0.99	1.04	50.1	1.22	2.11	13.40
TMF VR-US 18	18	19 x 0.254	1.22	1.32	27.9	1.65	2.46	15.62
TMF VR-US 16	16	19 x 0.287	1.40	1.55	21.9	1.73	2.62	20.10
TMF VR-US 14	14	19 x 0.361	1.76	1.88	14.2	2.46	3.12	29.00
TMF VR-US 12	12	19 x 0.455	2.20	2.36	9.12	2.54	3.61	41.66

STUDY 124585

Oil resistance
Very good resistance to aircraft fluids

Aero engines and very high temperature applications.

Very High Temperature Fire Resistant Wires.

CABLE DESIGN

Core (Study 124521)

19 strands of nickel clad copper conductor,
Strands diameter = 0.287 mm,

Special fire resistant composite insulation, Very high temperature.

Screen

Nickel clad copper helicoidal screen,
Strands diameter = 0.13 mm

Jacket

Very high temperature resistant composite

IDENTIFICATION

None

STANDARDS

National BMS 13-55; ST 448 006 3 01 A

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V RMS
Maximal operating frequency	2000 Hz
Temperature rating	20 000 hours at 300°C
Operating life (approx.)	30 hours at 370°C 300 hours at 350°C 330 hours at 310°C 2 500 hours at 300°C 32 840 hours at 260°C

Fire resistant
BMS 13-55 & **M25038**

Operating temperature
−65°C to +300°C

Fluids resistance
According to BMS 13-55

DIMENSIONS AND WEIGHTS

REFERENCE	US AWG	Construction (N x mm)	CONDUCTOR				INSULATION		SCREEN		FINISHED CABLE		
			Diameter (mm)		DC Resistance (Ω/km)		Diameter (mm)		Diameter (mm)		Ext. diameter (mm)		Max. Weight (g/m)
			Min.	Max.	Max. at 20°C	Nom. at 370°C	Nom.	Max.	Strand	Nom.	Min.	Max.	
Et.124585	16	19 x 0.287	1.40	1.55	22.5	55.8	2.90	3.40	0.13	3.45	4.15	4.45	42

TYPE 1050

Oil resistance
Very good resistance to aircraft fluids

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
Operating voltage: 600 volts RMS
Operating temperature: –50°C to +250°C (ambient + rise)

Same characteristics as 2100 cores. Morever, the overall polyimide and PTFE sheaths provide the following advantages: Very good electrical insulation of the screen; Very efficient protection of the screen against oxydation and corrosion; Easy fitting of the cable; Good mechanical protection of the screen; Safer handling

Screened Cables for High Ambient Temperatures.

CABLE DESIGN

Core

1, 2, or 3 cores, Type 2100.

Braid

Made up of nickel plated copper

Sheath

Polyimide, Wrapped and sintered PTFE sheath

IDENTIFICATION

None

STANDARDS

International AIR 4524; MIL-W-22759 D

National BMS 13-58

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
–50°C to +250°C

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

TYPE	Nb of cores	Cross section aera	AWG	Construction (n x mm)	2100 CORES		SCREEN AND PROTECTION			
					Overall diameter of the core (mm)	Color of cores	Screen strands diameter (mm)	PTFE outer sheath color (mm)	Max. Overall diameter (mm)	Average weight (g/m)
1050	1	0.38	22	12 x 0.20 NPC	1.90	White	12/100	White	3.2	20.8
1050	1	0.60	20	19 x 0.20 NPC	2.20	Light blue	12/100	Blue	3.5	25.9
1050	1	0.93	18	19 x 0.25 NPC	2.40	White	12/100	White	3.8	30.8
1050	1	1.34	16	19 x 0.30 NPC	2.70	Light blue	12/100	Blue	4.1	36.3
1050	1	1.91	14	27 x 0.30 NPC	2.95	White	12/100	White	4.4	44.3
1050	2	0.38	22	12 x 0.20 NPC	1.90	White, Blue	12/100	White	5.3	42.2
1050	2	0.60	20	19 x 0.20 NPC	2.20	Light blue, Blue	12/100	Blue	5.9	51.0
1050	2	0.93	18	19 x 0.25 NPC	2.40	White, Blue	12/100	White	6.3	63.2
1050	2	1.34	16	19 x 0.30 NPC	2.70	Light blue,blue	12/100	Blue	6.9	75.2
1050	2	1.91	14	27 x 0.30 NPC	2.95	White, Blue	12/100	White	7.6	92.6
1050	3	0.38	22	12 x 0.20 NPC	1.90	White, Blue, Yellow	12/100	White	5.6	53.0
1050	3	0.60	20	19 x 0.20 NPC	2.20	Light blue, Blue, Yellow	12/100	Blue	6.2	66.1
1050	3	0.93	18	19 x 0.25 NPC	2.40	White, Blue, Yellow	12/100	White	6.6	82.7
1050	3	1.34	16	19 x 0.30 NPC	2.70	Light blue, Blue, Yellow	12/100	Blue	7.3	98.6
1050	3	1.91	14	27 x 0.30 NPC	2.95	White, Blue, Yellow	12/100	White	8.1	122.3

The currents shown are valid for single wires in air. For current ratings in bundle, see Air 7822 Specification
N.P.C. = nickel plated copper

TECHNICAL REQUIREMENTS AND CONTROL CONDITIONS

Cores: See data sheet on type '2100',

Screen: MIL-7078 of August 1971,

Coding: AIR 0107 A Specification of October 1961
and Note N°348/SIB distributed under N°5927/STT/SIB 1961.

TYPE 1053

Oil resistance
Very good resistance to aircraft fluids

Designed for general purpose aircraft wiring applications.

High Temperature Cables.
Screened / Polyimide / PTFE / Sheathed
Same characteristics 2103 basic cores. Moreover the polyimide and PTFE protective sheath give the following advantages:
Very good electrical insulation of the screen,
Very efficient protection of the screen against oxydation and corrosion,
Easy fitting of the cable, Safer handling.

CABLE DESIGN

Core

Type 2103

Screen

Nickel plated copper braided screen

Jacket

Polyimide,
Wrapped and sintered,
PTFE tape

IDENTIFICATION

None

STANDARDS

International AIR 4524; MIL-C-7078C

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

Operating temperature
–90°C to +260°C

Fire resistant

DIMENSIONS AND WEIGHTS

PART NUMBER	Nb of cores	AWG	SCREEN		FINISHED CABLE				IDENTIFICATION COLORS	
			Strands size (mm)	Nom. diam. (mm)	Diameter (mm) Nom.	Diameter (mm) Max.	Max. Weight (g/m)	Max. Resistance at 20°C of cores (Ω/km)	Cores	Sheath
1053 1 x 0.21 G.24	1	24	0.10	2.05	2.40	2.60	15.00	8.40	Light Blue	Light Blue
1053 1 x 0.38 G.22	1	22	0.10	2.20	2.60	2.90	17.63	9.50	White	White
1053 1 x 0.60 G.20	1	20	0.10	2.30	2.70	3.00	20.04	12.50	Light Blue	Blue
1053 1x 0.93 G18	1	18	0.12	2.50	2.90	3.20	25.11	17.50	White	White
1053 1 x 1.34 G.16	1	16	0.12	3.10	3.50	4.10	35.90	21.50	Light Blue	Blue
1053 1 x 1.91 G.14	1	14	0.12	3.42	3.80	4.40	45.30	31.50	White	White
1053 2 x 0.21 G.24	2	24	0.12	3.80	4.20	4.50	28.30	8.40	Light Blue, Blue	Blue
1053 2 x 0.38 G.22	2	22	0.12	4.10	4.50	4.90	33.56	9.50	White, Blue	White
1053 2 x 0.60 G.20	2	20	0.12	4.30	4.70	5.20	38.42	12.50	Light Blue, Blue	Blue
1053 2 x 0.93 G.18	2	18	0.12	4.52	4.90	5.50	45.37	17.50	White, Blue	White
1053 2 x 1.34 G.16	2	16	0.12	5.72	6.10	7.10	66.19	21.50	Light Blue, Blue	Blue
1053 2 x 1.91 G.14	2	14	0.12	6.35	6.80	7.80	84.72	31.50	White, Blue	White
1053 3 x 0.21 G.24	3	24	0.12	4.05	4.40	5.00	37.78	8.40	Light Blue, Blue, Yellow	Light Blue
1053 3 x 0.38 G.22	3	22	0.12	4.37	4.75	5.40	45.33	9.50	White, Blue, Yellow	White
1053 3 x 0.60 G.20	3	20	0.12	4.60	5.00	5.60	52.38	12.50	Light Blue, Blue, Yellow	Blue
1053 3 x 0.93 G.18	3	18	0.12	4.82	5.2	5.80	62.56	17.50	White, Blue, Yellow	White
1053 3 x 1.34 G.16	3	16	0.12	6.10	6.50	7.50	92.41	21.50	Light Blue, Blue, Yellow	Blue
1053 3 x 1.91 G.14	3	14	0.12	6.80	7.20	8.40	119.49	31.50	White, Blue, Yellow	White
1053 4 x 0.21 G.24	4	24	0.12	4.48	4.85	5.30	46.51	8.40	Light Blue, Blue, Yellow, Green	Light Blue
1053 4 x 0.38 G.22	4	22	0.12	4.85	5.20	5.60	56.28	9.50	White, Blue, Yellow, Green	Yellow
1053 4 x 0.60 G.20	4	20	0.12	5.08	5.45	6.00	65.48	12.50	Light Blue, Blue, Yellow, Green	Blue
1053 4 x 0.93 G.18	4	18	0.12	5.35	5.70	6.20	78.84	17.50	White, Blue, Yellow, Green	White
1053 4 x 1.34 G.16	4	16	0.12	6.80	7.20	7.70	117.46	21.50	Light Blue, Blue, Yellow, Green	Blue
1053 4 x 1.91 G.14	4	14	0.12	7.57	7.95	8.50	152.93	31.50	White, Blue, Yellow, Green	White

This cable type accomodates connectors according to MIL-C-83723 specification
N.P.C. = nickel plated annealed electrolytic copper

TECHNICAL REQUIREMENTS AND CONTROL CONDITIONS

Cores: See data sheet on type '2103',

Screen: To MIL-C-7078 Specification of August 1971,

Coding: To Air 0107 A Specification of October 1961
and Note n°5927/STT/SIB of Mai 1961.

TYPE 2100

Oil resistance
Very good resistance to aircraft fluids

These Flexible Cables are designed for use at high ambient temperatures up to 289°C at peak, Excellent flame resistance, non-flammable.

They withstand most solvent To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
These cables are approved by the Air Ministry under letters:
N°42707 STA/EQ/E2 (03-12-68)
Registered at the B.N.Aé: N°6418 401

CABLE DESIGN

Conductor

Stranded nickel plated copper,
Thin wrapped PTFE layer

Insulation

Polyimide

Outer jacket

a) From 0.38 to 1.34 mm^2:
Extruded PTFE sheath (high abrasion resistance),

b) From 1.91 mm^2:
Composite glass fiber + PTFE
+ wrapped and sintered PTFE

IDENTIFICATION

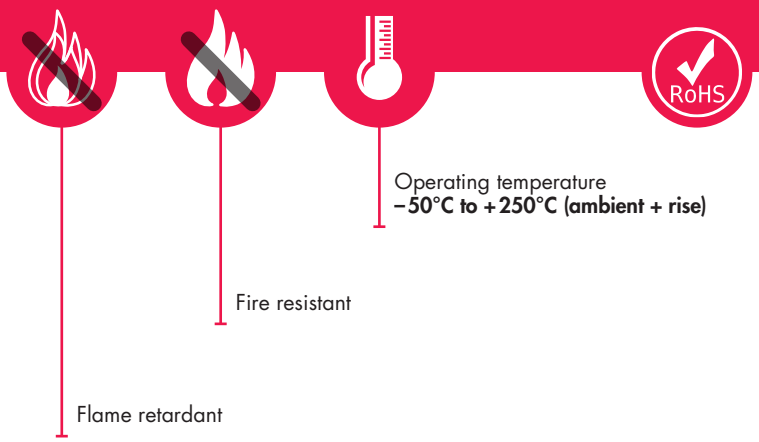
Color coding: According to AIR 0107 (10/1961).

STANDARDS

International AIR 4524; MIL-W-22759 B

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V



DIMENSIONS AND WEIGHTS

TYPE	Nb of cores	Cross section	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction (n x mm)	Diameter (mm)		Weight (g/m)		Max. DC Resistance at 20°C (Ω/km)	Current rating (A)
				Max.	Overall	Nom.	Max.		
2100	0.38	22	12 x 0.20	0.85	1.90 ±0.10	8.6	9.3	54.50	7
2100	0.60	20	19 x 0.20	1.00	2.20 ±0.10	12.1	12.4	34.40	11
2100	0.93	18	19 x 0.25	1.25	2.40 ±0.10	15.8	17	22.00	16
2100	1.34	16	19 x 0.30	1.50	2.70 ±0.10	19.6	20	15.30	22
2100	1.91	14	27 x 0.30	1.85	2.95 ±0.10	26.1	27	10.80	32
2100	3.18	12	45 x 0.30	2.40	3.60 ±0.15	40.8	46.7	6.50	41
2100	5.15	10	73 x 0.30	3.10	4.20 ±0.20	60.4	65	3.90	55
2100	8.98	8	127 x 0.30	4.00	5.30 ±0.20	102	108	2.30	75
2100	13.40	6	27 x 7 x 0.30	5.10	7.00 ±0.30	158	160	1.60	100
2100	21.80	4	37 x 12 x 0.25	6.60	9.00 ±0.30	237	245	0.97	135
2100	34.50	2	37 x 19 x 0.25	8.20	10.60 ±0.30	391	396	0.61	181
2100	41.80	1	37 x 23 x 0.25	9.80	11.80 ±0.30	460	470	0.50	211
2100	52.70	0	37 x 29 x 0.25	10.80	13.10 ±0.30	580	600	0.40	245
2100	67.20	00	37 x 37 x 0.25	12.40	14.20 ±0.30	736	750	0.31	283
2100	84.80	000	48 x 36 x 0.25	13.80	15.75 ± 1.15	965	980	0.25	328
2100	107.80	0000	61 x 36 x 0.25	15.80	17.50 ± 1.20	1150	1220	0.19	380

The currents shown are valid for single wires in air. For current ratings in bundle see AIR 7822 specification.

TECHNICAL REQUIREMENTS AND CONTROL CONDITIONS

Air 4524 Specification of Septembre 1965 - Category 250/280°C
NF.L 52-125A French Draft Specification - Category C, July 1978 - Standard cables.

Interchangeability

MIL-W-22759 D Specification
Index 8 A of june 1973 and MS 18001 (up to 12 AWG)

TYPE 2103

Oil resistance
Very good resistance to aircraft fluids

Flexible Cables for High Ambient Temperatures.

Designed for general purpose aircraft wiring applications.
AIR 4524 Specification – Category 250/280°C NF.L 52-125B – High temperature cable. These cables are appoved by the Air Ministry under letters
– N°34672 STA/EQ/E3 dated 25 May 1977.
– N°34672 STA/EQ/E3 dated 22 December 1977.
Registered at the B.N.Aé : N°6418 404 A.

CABLE DESIGN

Conductor

Stranded Nickel plated copper or Nickel plated copper alloy for 0.21 mm^2 cross section size (alloy providing a high mechanical resistance)

Layer

Thin PTFE

Insulation

Polyimide

Protective Insulation

Glass fiber tape coated with PTFE,
Wrapped PTFE finish sheath

IDENTIFICATION

Color coding: According to AIR 0107 (10/1961).
Other color codings on request
(stripes or printed identification).

STANDARDS

International AIR 4524; MIL-W-22759 B

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Operating temperature
−90°C to +260°C

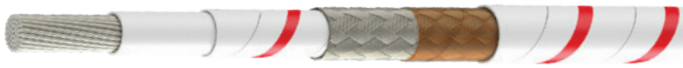
Abrasion resistance
Good

Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)

DIMENSIONS AND WEIGHTS

TYPE	Cross section	AWG	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction (n x mm)	Max. Diameter (mm)	Tensile strength (daN)	Max. Overall diameter (mm)	Max. Weight (g/m)	Max. DC Resistance at 20°C (Ω/km)	Current rating (A)
2103	0.21	24	19 x 0.12 N.P.All	0.65	7	1.80	8.4	112.30	4
2103	0.38	22	12 x 0.20 N.P.C.	0.85	8	1.95	9.5	54.50	7
2103	0.60	20	19 x 0.20 N.P.C.	1.03	16	2.10	12.5	34.40	11
2103	0.93	18	19 x 0.25 N.P.C.	1.28	>20	2.20	17.5	22.00	16
2103	1.34	16	19 x 0.30 N.P.C.	1.53	>20	2.80	21.5	15.30	22
2103	1.91	14	27 x 0.30 N.P.C.	1.87	>20	3.20	31.5	10.80	32
2103	3.18	12	45 x 0.30 N.P.C.	2.40	>20	3.70	47.5	6.40	41
2103	5.15	10	73 x 0.30 N.P.C.	3.10	>20	4.35	65	3.98	55
2103	8.98	8	127 x 0.30 N.P.C.	4.20	>20	5.55	108	2.29	75
2103	13.40	6	27 x 7 x 0.30 N.P.C.	5.60	>20	7.30	160	1.58	100
2103	21.80	4	37 x 12 x 0.25 N.P.C.	7.30	>20	9.30	262	0.97	135
2103	34.50	2	37 x 19 x 0.25 N.P.C.	8.80	>20	10.90	396	0.61	181
2103	41.80	1	37 x 23 x 0.25 N.P.C.	9.80	>20	12.10	470	0.50	211
2103	52.70	0	37 x 29 x 0.25 N.P.C.	10.80	>20	13.40	600	0.40	245
2103	67.20	00	37 x 37 x 0.25 N.P.C.	12.40	>20	14.50	750	0.31	283
2103	84.80	000	48 x 36 x 0.25 N.P.C.	13.80	>20	16.90	980	0.25	328
2103	107.80	0000	61 x 36 x 0.25 N.P.C.	15.80	>20	18.70	1220	0.19	380

Currents shown are valid for single wires in air. For current ratings in bundle see AIR 7822 specification.
N.P.All. = nickel plated annealed copper alloy - N.P.C. = nickel plated annealed electrolytic copper.



EN 4608-004 GPA, GPB, GPC

Oil resistance
Very good resistance to aircraft fluids

Use in the onboard electrical systems of aircraft.

Fireproof Cables, Single and Multicores Screened and Jacketed.

CABLE DESIGN

Cores

Stranded conductor, Nickel clad copper alloy for AWG 22, Nickel clad copper for other AWG

Insulation

Fire resistant insulation, Polyimide tape, PTFE tape

Screen

Nickel plated copper braid

Jacket

UV PTFE tape(s)

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V

IDENTIFICATION

Core Identification

Color

1 core: white with helical red stripe

2 cores: white with helical red / blue stripe

3 cores: white with helical red / blue / yellow stripe

Marking text: EN DW A ++ FRF**

Jacket identification

Color: White with narrow red stripe

Marking text: EN ### ++ FRF**

= *(single core: GPA, two cores: GPB, three cores: GPC)*
++ = *AWG size*
FR = *Country of origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of production (ie. 14 = 2014)*

STANDARDS

International EN 4608-004

Operating temperature
−65°C to +260°C

Fire resistant
>10k Ω 15 min

HIGH TEMPERATURE & FIRE RESISTANT
EN 4608-004 GPA, GPB, GPC

DIMENSIONS AND WEIGHTS

REFERENCE	Size code (AECMA)	AWG	Max. transfer impedance from 0 to 1 MHz (mΩ/m)	FINISHED WIRE				
				Nb of cores	Nom. Diameter of shield strands (mm)	Max. DC Resistance at 20°C (Ω/km)	Max. Diameter (mm)	Max. Weight (g/m)
EN 4608-004A 002	002	24	60	1	0.10	131.0	2.61	14.15
EN 4608-004A 004	004	22		1	0.10	80.9	2.73	16.51
EN 4608-004A 006	006	20		1	0.10	44.3	3.01	21.54
EN 4608-004A 010	010	18		1	0.12	27.9	3.57	31.19
EN 4608-004A 012	012	16		1	0.12	18.8	3.72	36.94
EN 4608-004A 020	020	14		1	0.12	13.9	4.24	46.40
EN 4608-004A 030	030	12		1	0.12	8.9	4.79	62.87
EN 4608-004B 002	002	24	40	2	*See EN 4608_0005B*			
EN 4608-004B 004	004	22		2	0.12	82.5	4.30	29.66
EN 4608-004B 006	006	20		2	0.12	45.2	4.90	40.51
EN 4608-004B 010	010	18		2	0.12	28.5	5.90	56.25
EN 4608-004B 012	012	16		2	0.12	19.2	6.20	65.71
EN 4608-004B 020	020	14		2	0.12	14.2	7.20	85.98
EN 4608-004B 030	030	12		2	0.12	9.1	8.30	118.48
EN 4608-004C 002	002	24	35	3	0.12	133.6	4.40	33.61
EN 4608-004C 004	004	22		3	0.12	82.5	4.50	39.15
EN 4608-004C 006	006	20		3	0.12	45.2	5.20	54.46
EN 4608-004C 010	010	18		3	0.12	28.5	6.20	77.01
EN 4608-004C 012	012	16		3	0.12	19.2	6.60	90.47
EN 4608-004C 020	020	14		3	0.15	14.2	7.80	125.75
EN 4608-004C 030	030	12		3	0.15	9.1	9.00	174.02

GPA GPB GPC

ABS 0053 PL 22

Oil resistance
Very good resistance to aircraft fluids

Heavy duty applications in aeroengines and high temperature areas with good mechanical and electrical performances.

Very High Temperature Fire Resistant Cables.
Product designed according to: ABS0053.

CABLE DESIGN

Cores

ASNE 0437 DL 22, Diameter : 2.02 ± 0.09 mm

Assembly

2 cores twisted, Diameter: 4.04 ± 0.18 mm,
Max. weight : 20 g/m

IDENTIFICATION

Color of cores: 1 core white with red stripe and
1 core white with blue stripe

Color of marking: Green

Marking text: DL ++ FR F**

++ = *AWG*
FR = *Country of Origin (FR = France)*
F = *Manufacturer (F = Nexans)*
** = *Year of manufacturing (ie. 14 = 2014)*

STANDARDS

International MIL-W-25038

National ASNE 0437 DL

ELECTRICAL AND HIGH FREQUENCY PERFORMANCES

Operating voltage	600 V
Maximal operating frequency	0.002 MHz
Max. DC resistance of the conductor at 20°C	83.5 Ω/km

Operating temperature
–55°C to +260°C

Fire resistant
MIL-W-25038

HIGH TEMPERATURE & FIRE RESISTANT
ABS 0053 PL 22

BRAIDS

APPLICATION

Braids provide a complementary protection to cables against the external environment in an aircraft.

ADVANTAGES

Our braids assure a lengthening of the life time of cables. These braids are designed for use as faradization screen on cable bundles. Their diameter may vary thanks to their very high flexibility, thus faciliting the bundle introduction.

MAIN PROPERTIES

- Flexible
- Electromagnectic protection

Serie: GAINE 553**/1

Tubular braids.

Tin plated Copper with Filler.

APPLICATIONS

The diameter of these braids to be chosen is the one wich is upper at once to the diameter of the bundle to be covered.

The braids are allowed to be used in lengths smaller or equal to 2 meters.

CONSTRUCTION

1 – PE tubular filler

2 – Tubular braid made up of tin plated copper strands

STANDARDS

International Nexans specification

DIMENSIONS AND WEIGHTS

NEXANS REF.	FILLER		BRAID							FINISHED CABLE	
	Ø PE (mm)	Weight (g/m)	Nb of carriers	Nb of strands	Nom. Diameter of strands (mm)	Angle (°)	Coverage factor (%)	Nom. Diameter (mm)	Nom. Weight (g/m)	Nominal DC resistance of braid at 20°C (mΩ/m)	Weight (g/m)
55304/1	4 ±0.15	8.77	16	11	0.10	34	80	4.50	14.7	17.7	23.5
55306/1	6 ±0.20	14.61	24	11	0.10	33	80	6.50	21.7	11.7	36.3
55308/1	8 ±0.25	23.84	24	14	0.10	36	80	8.50	29.1	9.5	52.9
55310/1	10 ±0.30	35.18	24	18	0.10	36	80	10.50	37.1	7.3	72.3
55312/1	12 ±0.40	46.02	40	12	0.10	38	80	12.50	43.9	6.2	89.9
55315/1	15 ±0.45	59.16	40	17	0.10	30	80	15.50	54.7	4.4	113.9
55955/1	18 ±0.55	85.20	40	16	0.12	34	80	18.60	77.8	3.2	163.0
55320/1	20 ±0.60	114.41	40	14	0.15	35	80	20.75	108.2	2.3	222.6
59956/1	22 ±0.70	127.27	40	16	0.15	33	80	22.75	118.9	2.1	246.2
59957/1	25 ±0.75	152.54	40	14	0.20	29	80	26.00	185	1.4	337.5

Serie: GAINE 667**/1

Tubular braids.

Nickel plated Copper with Filler.

APPLICATIONS

The diameter of these braids to be chosen is the one wich is upper at once to the diameter of the bundle to be covered.

The braids are allowed to be used in lengths smaller or equal to 2 meters.

CONSTRUCTION

1 – PE tubular filler

2 – Tubular braid made up of nickel plated copper strands

STANDARDS

International Nexans specification

DIMENSIONS AND WEIGHTS

NEXANS REF.	FILLER		BRAID							FINISHED CABLE	
	Ø PE (mm)	Weight (g/m)	Nb of carriers	Nb of strands	Nom. Diameter of strands (mm)	Angle (°)	Coverage factor (%)	Nom. Diameter (mm)	Nom. Weight (g/m)	Nominal DC resistance of braid at 20°C (mΩ/m)	Weight (g/m)
66704/1	4 ±0.15	8.77	16	11	0.10	34	80	4.50	14.7	17.7	24
66706/1	6 ±0.20	14.61	24	11	0.10	33	80	6.50	21.7	11.7	36
66708/1	8 ±0.25	23.84	24	14	0.10	36	80	8.50	29.1	9.5	53
66710/1	10 ±0.30	35.18	24	18	0.10	36	80	10.50	37.1	7.3	72
66712/1	12 ±0.40	46.02	40	12	0.10	38	80	12.50	43.9	6.2	90
66714/1	14 ±0.45	51.54	40	15	0.10	35	80	14.50	51.1	5.3	102
66715/1	15 ±0.45	59.16	40	17	0.10	30	80	15.50	54.7	4.4	114
66716/1	16 ±0.45	74.68	40	14	0.12	37	80	16.60	70.1	3.8	145
66718/1	18 ±0.55	85.20	40	16	0.12	34	80	18.60	77.8	3.2	163
66720/1	20 ±0.60	114.41	40	14	0.15	35	80	20.75	108.2	2.3	223
66722/1	22 ±0.70	127.27	40	16	0.15	33	80	22.75	118.9	2.1	246
66725/1	25 ±0.75	152.54	40	14	0.20	29	80	26.00	185	1.4	337.5

Symbols

FLEXIBILITY

OIL RESISTANCE

FLAME RETARDANT

FIRE RESISTANT

OPERATING TEMPERATURE

ABRASION RESISTANCE

This catalogue shows a general description of products which characteristics are not contractual in any case.

Nexans reserves the right to change specifications without prior notice.

MINIMUM BENDING RADIUS

ARC TRACKING RESISTANT

FLUIDS RESISTANCE

MOULD AND FUNGUS RESISTANT

ROHS COMPLIANT

ELECTRO MAGNETIC INTERFERENCE

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Notes

Notes

Nexans brings energy to life through an extensive range of advanced cabling systems, solutions and innovative services.
For over 120 years, Nexans has been providing customers with cutting-edge cabling infrastructure for power and data transmission. Today, beyond cables, the Group advises customers and designs solutions and services that maximize performance and efficiency of their projects in four main business areas: Building & Territories (including utilities, emobility), High Voltage & Projects (covering offshore wind farms, submarine interconnections, land high voltage), Telecom & Data (covering data transmission, telecom networks, hyperscale data centers, LAN), and Industry & Solutions (including renewables, transportation, Oil & Gas, automation, and others).

Corporate Social Responsibility is a guiding principle of Nexans' business activities and internal practices. In 2013 Nexans became the first cable provider to create a Foundation supporting sustainable initiatives bringing access to energy to disadvantaged communities worldwide. The Group's commitment to developing ethical, sustainable and high-quality cables also drives its active involvement within leading industry associations, including Europacable, the NEMA, ICF or CIGRE to mention a few.
Nexans employs nearly 27,000 people with industrial footprint in 34 countries and commercial activities worldwide. In 2018, the Group generated 6.5 billion euros in sales.
Nexans is listed on Euronext Paris, compartment A.

For more information, please visit: www.nexans.com

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