

WIRES & CABLES FOR AEROSPACE APPLICATIONS



Prysmian is the world leader in the cable systems industry. With a global presence and a long-term industrial experience, the group is strongly positioned in high-technology markets and offers the widest possible range of products, services, technologies and know-how.

Guided by a spirit of conquest and innovation, Prysmian supports major aeronautic and space players worldwide with their most ambitious projects. For over 60 years, the company has been continuously developing and manufacturing wiring solutions through technological excellence.

Prysmian offers a wide portfolio of products and the core competencies of its highly skilled and experienced specialists focus on improving all aspects of cable performance, such as high-temperature resistance, reducing weight and enhancing the communication data rates.

To ensure the highest quality levels, the whole organization is certified under ISO 9001, EN 9100, ISO 14001, as well as ISO 45001.

Prysmian is a proud member of the following organizations:



Legend of icons in this catalog:

- | | | |
|---|--|--|
| CU Copper conductor | AL Aluminum conductor |  Light weight |
| CCA Copper-clad aluminum conductor |  High-temperature |  High voltage |

For detailed technical information refer to the product data sheet. Also available online with the QR-Code.

SUMMARY

1 AIRFRAME HOOK-UP

• EN STANDARD CABLES: DR-SERIES..... p. 7

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 - Multi-core-----DRx EN2267-009
 - Shielded and jacketed -----MLx EN2714-013
MMx EN2714-014
- DR-SERIES DASSAULT SPECIFICATIONS
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DRQ EN2266-008D
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- EN STANDARD CABLES: RETRO-FIT p. 8
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TK-U ASNE0272/EN2713-007
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• ULTRA-LIGHT AIRFRAME HOOK-UP WIRE p. 9

- AD-SERIES
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AS 22759 wires-----M22759/80 - /92 – M22759/180 - /195

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NEMA WC 27500 cables

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3 HIGH-VOLTAGE

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4 DATA TRANSMISSION

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 - F1703-94 coaxial-----Dassault specification
 - F1709-72-U-AG coaxial -----Dassault specification
 - M17-110-RG302-AB XK coaxial -----NSA935348 - M17/110 - RG302AB
- TWINAX-BUS CABLES
 - F2703-48-U A -----Dassault specification (data Bus 1553)
 - F2703-48-U B -----Dassault specification (data Bus 1553)
 - WJC24-----EN3375-004
 - WW26 F2703-72-----EN3375-007
 - F2709-12 - F2709-09 - F2709-13 - F2709-35
 - F2703-37 WF24 -----ABS0386
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- QUAD CABLES
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 - F4704-5 KD24-----ABS1503 / ARINC 664
 - F4704-6 - F4704-8 - F4704-9 - F4709-6
 - F4704-19 KL24 -----EN3375-011
 - FAS6070/1-----AS6070/1
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- MQB F2744-7 -----ECS0828
- MQD F4744-8 -----ECS0829
- F5604-5 HG24 -----ASNE0300 like DR cores

• THERMOCOUPLES..... p. 20

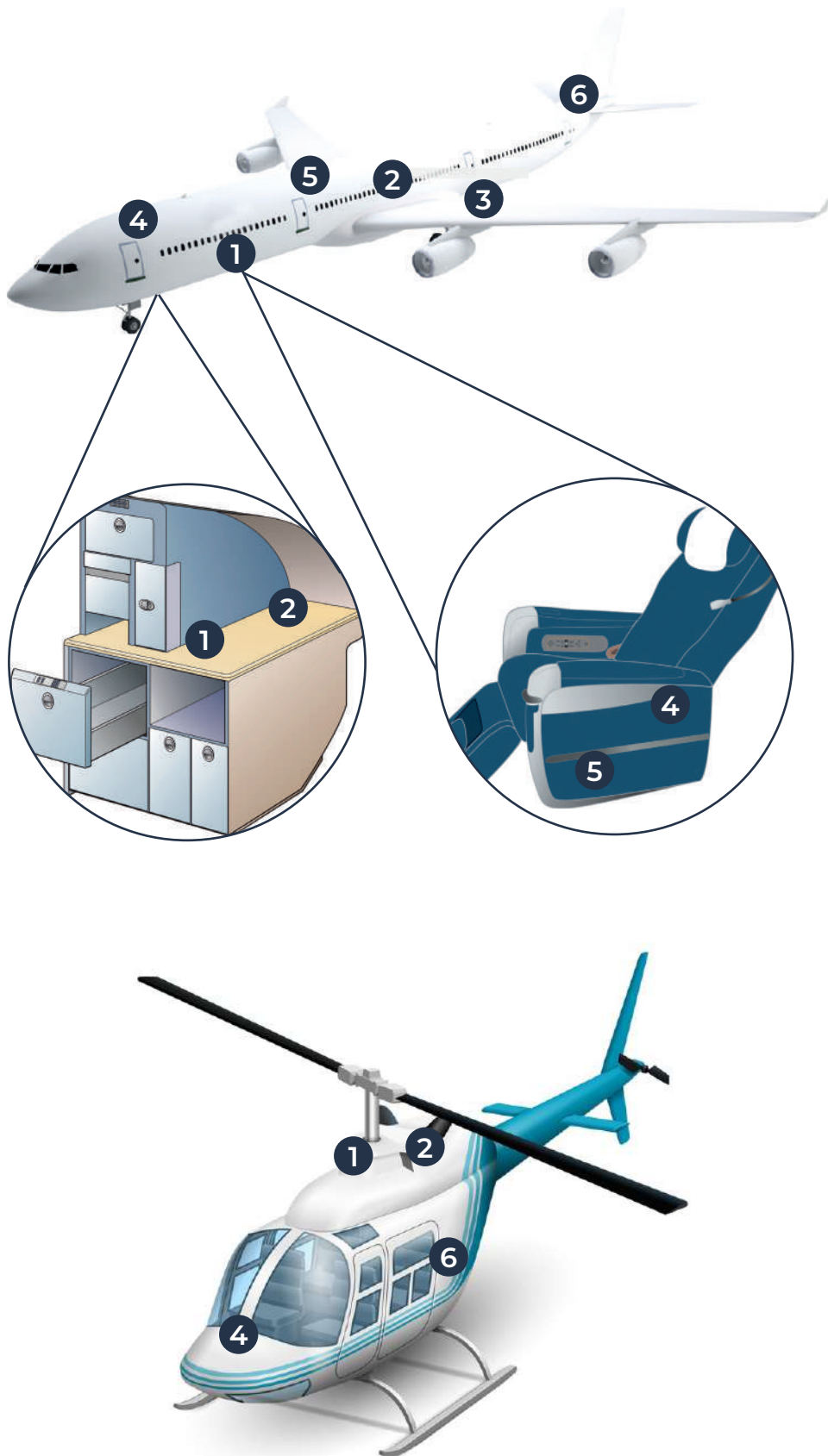
- F2793-33: ASNE (Elements recognition) - F2793-22: NSA (Elements recognition)
- F2794-14 / F2794-14-NI-----ABS1704
- F2794-32 - F2790-12
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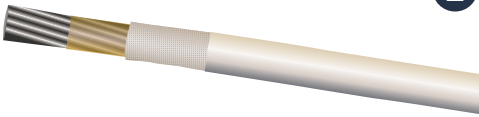
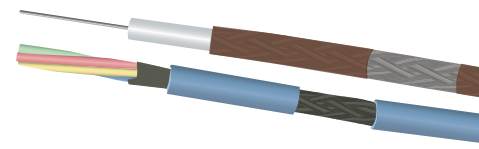
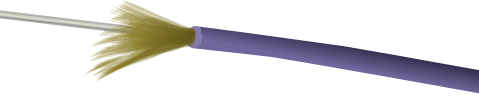
• OTHERS DESIGNS p. 21

- High-flexibility airframe wires -----BF
- Equipment interconnect cables – 600 V - BN
- NEMA HP3 wires (former MIL W 16878)---ET / E / EE

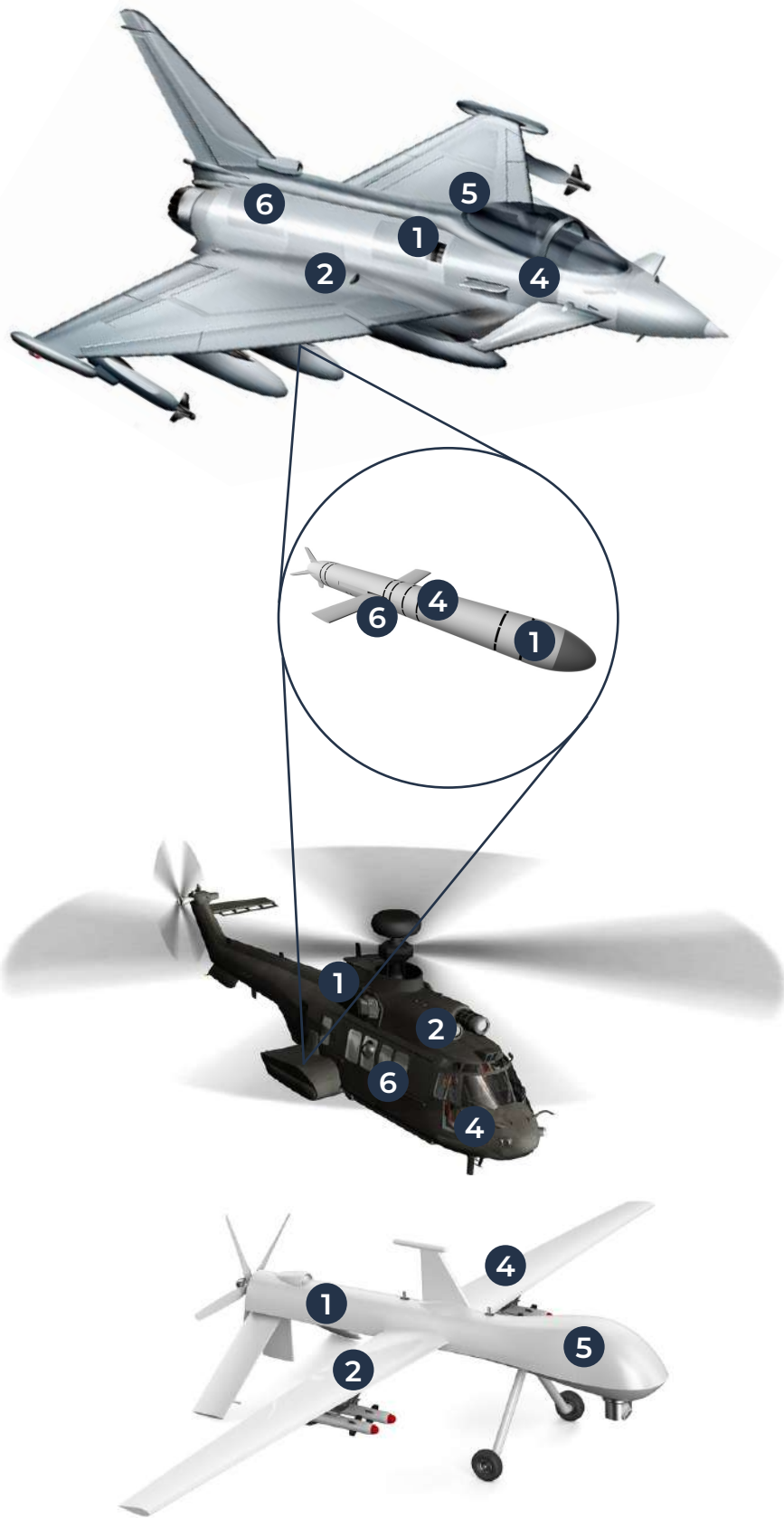
PRYSMIAN PRODUCTS – EXCELLENCE IN A VARIETY OF APPLICATIONS

Civil airplanes & helicopters



	1 Airframe Hook-up wires Application examples: - Lights - Actuators - Flight-test Cable families: DR, CF, DM, AD, M22759, M27500, BG, VF...
	2 Feeder cables Application examples: - Electrical power generation (high power systems) Cable families: A1715 (Dassault), NSA 935131 DG, EN 2854-003 DG, DH, AD
	3 High-voltage cables Application examples: - Power generation Cable families: AZ, DZ
	4 Data-transmission cables Application examples: - Inflight-entertainment systems - Avionics Cable families: Coax, TWINAX, Quad, Ethernet, USB 2.0, HDMI
	5 Optical fiber Application examples: - Inflight-entertainment - Avionics - Health-monitoring Cable families: MMF (semi-loose/tight) SMF (semi-loose/tight)
	6 Various designs Application examples: - Equipment interconnect - Temperature sensing Cable families: BF, BN, NEMA HP3, Thermocouples...

Defense airplanes, helicopters and UAVs



IDENTIFICATION

Example: EN2267-010 A 006 S

1 2 3 4

- 1. Number of standard EN
- 2. Code letter for number of cores
- 3. Code for gauge size
- 4. Code letter for color coding cores / jacket

2. Code letter for Number of cores

Nb of cores	1	2	3	4	5	6	7	8	9	10
Code	A	B	C	D	E	F	G	H	I	J

3. Gauge sizes

Gauge code	AWG	Nominal cross section (mm²)	Gauge code	AWG	Nominal cross section (mm²)
001	26	0.15	090	8	9
002	24	0.25	140	6	14
004	22	0.4	220	4	22
006	20	0.6	340	2	34
010	18	1	420	1	42
012	16	1.2	530	0	53
020	14	2	680	00	67
030	12	3	850	000	85
051	10	5	1070	0000	107

COLOR CODES

Unshielded

EN2267-XXX Y zzz Z

S: color code single core
P: color code multi-core



Unshielded & jacketed

EN2266-XXX Y zzz Z

P: color code single / multi-core / jacket



Shielded & jacketed

EN2713-XXX Y zzz Z

F: color code single / multi-core / jacket
E: color code single* / multi-core / orange jacket



Nb of cores	Colors
1	○* White*, except gauge 22: Light green and gauge 26: Light yellow
2	●● Red, blue
3	●●● Red, blue, yellow
4	●●●● Red, blue, yellow, green
5	●●●●○ Red, blue, yellow, green, white
6	●●●●○● Red, blue, yellow, green, white, black
7	●●●●○●● Red, blue, yellow, green, white, black, brown
8	●●●●○●●● Red, blue, yellow, green, white, black, brown, orange
9	●●●●○●●●● Red, blue, yellow, green, white, black, brown, orange, violet
10	●●●●○●●●●● Red, blue, yellow, green, white, black, brown, orange, violet, grey

*Single core code color E: White for all the gauges
Jacket colors code P and F: Light Blue for gauges AWG24/20/16, white for all other gauges
Color code S also applicable to ASNE0261, except gauge 26: White
Color code P also applicable to ASNE0264/0266/0268
Color code F also applicable to ASNE0270/0272/0274, except gauge 26: White

DR-SERIES

DR-SERIES

- Characteristics:** Arc-tracking resistant
Temperature range: -65°C to +260°C
Network: 115 V AC
Conductor: Nickel plated copper (AWG 22 to 02)
High-strength nickel plated copper alloy (AWG 26 & 24)
Insulation: Polyimide and PTFE tapes
Jacket: Polyimide and PTFE tapes
Shield: Nickel plated copper



Cable family	Standard	AWG		Number of cores	Shielded		Jacketed	UV-laser marking
		Min.	Max.		Spiral	Braid		
Single core								
DR	EN2267-010A	26	02	1				●
DRA	EN2267-009A	26	02	1				
Multi-core								
DRB	EN2267-009B	26	02	2 x DRA				
DRC	EN2267-009C	26	02	3 x DRA				
DRD	EN2267-009D	26	08	4 x DRA				
Shielded and jacketed								
MLA	EN2714-013A	26	10	1 x DRA	●		●	●
MLB	EN2714-013B	26	10	2 x DRA	●		●	●
MLC	EN2714-013C	26	10	3 x DRA	●		●	●
MLD	EN2714-013D	26	10	4 x DRA	●		●	●
MMX	EN2714-014X	26	10	1-10 x DRA*		●	●	●

* Available upon Request.

DASSAULT SPECIFICATIONS

- Characteristics:** According to Dassault specifications
Temperature range: -55°C to +200°C
Network: 115 V AC
Conductor: Nickel plated copper (AWG 22 to 02)
High-strength nickel plated copper alloy (AWG 26 & 24)
Insulation: Polyimide and PTFE tapes
Jacket: Polyimide and fluoropolymer topcoat
Shield: Silver plated copper



Cable family	Standard	AWG		Number of cores	Shielded		Jacketed	UV-laser marking
		Min.	Max.		Spiral	Braid		
Multi-core jacketed								
DRP	EN2266-008B	26	14	2 x DRA			●	●
DRT	EN2266-008C	26	12	3 x DRA			●	●
DRQ	EN2266-008D	26	14	4 x DRA			●	●
Shielded and jacketed								
MNA	EN2713-012A	26	10	1 x DRA	●		●	●
MNB	EN2713-012B	26	14	2 x DRA	●		●	●
MNC	EN2713-012C	26	14	3 x DRA	●		●	●
MND	EN2713-012D	26	16	4 x DRA	●		●	●

RETRO-FIT

CF-SERIES

Characteristics: Low temperature airframe wires, **RETRO-FIT**
Temperature range: -55°C to +200°C
Network: 115 V AC
Conductor: Nickel plated copper (AWG 22 to 10)
High-strength nickel plated copper (AWG 26 & 24)
Insulation: Polyimide tapes and FEP topcoat
Jacket: Polyimide tapes and FEP topcoat
Shield: Nickel plated copper



Cable family	Standards	AWG		Number of cores	Shielded		Jacketed	UV-laser marking
		Min.	Max.		Spiral	Braid		
Single core								
CF-U	ASNE0261 EN2266-005A	26	10	1				●
Multi-core								
PF	ASNE0264 EN2266-003B	26	10	2 x ASNE0261 or EN2266				
QF	ASNE0266 EN2266-003C	26	10	3 x ASNE0261 or EN2266				
RF	ASNE0268 EN2266-003D	26	10	4 x ASNE0261 or EN2266				
Shielded and jacketed								
SJ-U	ASNE0270	26	14	1 x	●		●	●
	EN2713-007A	26	10	ASNE0261 or EN2266				
TK-U	ASNE0272	26	12	2 x	●		●	●
	EN2713-007B	26	10	ASNE0261 or EN2266				
UD-U	ASNE0274	26	14	3 x	●		●	●
	EN2713-007C	26	12	ASNE0261 or EN2266				

DM-SERIES

Characteristics: High temperature, arc-tracking resistant, **RETRO-FIT**
Temperature range: -65°C to +260°C
Network: 115 V AC
Conductor: Nickel plated copper (AWG 22 to 06)
High-strength nickel plated copper alloy (AWG 26 & 24)
Insulation: Polyimide and PTFE tapes
Jacket: Polyimide and PTFE tapes
Shield: Nickel plated copper



Cable family	Standards	AWG		Number of cores	Shielded		Jacketed	UV-laser marking
		Min.	Max.		Spiral	Braid		
Single core								
DM	EN2267-008A	26	06	1				●
DMA	EN2267-007A	26	06	1				
Multi-core								
PN	EN2267-007B	26	06	2 x DMA				
QL	EN2267-007C	26	06	3 x DMA				
RK	EN2267-007D	26	06	4 x DMA				
Shielded and jacketed								
GJ	EN2714-011A	26	10	1 x DMA	●		●	●
MH	EN2714-011B	26	10	2 x DMA	●		●	●
UU	EN2714-011C	26	10	3 x DMA	●		●	●
VV	EN2714-011D	26	14	4 x DMA	●		●	●

ULTRA-LIGHT AIRFRAME HOOK-UP WIRE

AD-SERIES

Characteristics: Arc-tracking resistant, light weight
Temperature range: -55°C to +180°C
Network: 115 V AC
Conductor: Nickel plated copper-clad aluminum
Insulation: Polyimide and PTFE tapes
Jacket: Polyimide and PTFE tapes
Shield: Nickel plated copper



Cable family	Standard compliant with	AWG		Number of cores	Shielded		Jacketed	UV-laser marking
		Min.	Max.		Spiral	Braid		
Single core								
AD	PR EN4681-003*	24	04	1				●
ADA	PR EN4681-004**	24	04	1				
Multi-core								
ADB	PR EN4681-004**	24	04	2 x ADA				
ADC	PR EN4681-004**	24	04	3 x ADA				
ADD	PR EN4681-004**	24	04	4 x ADA				
Shielded and jacketed								
VNA	PR EN4682-003***	24	10	1 x ADA	●		●	●
VNB	PR EN4682-003***	24	10	2 x ADA	●		●	●
VNC	PR EN4682-003***	24	10	3 x ADA	●		●	●
VND	PR EN4682-003***	24	14	4 x ADA	●		●	●

* analogy with ABS0949 - ** analogy with ABS1354 - *** analogy with ABS1356

COLOR CODES, GAUGES, MARKING

Unshielded
Single core

AD zz FR A yy

1. Year Code
2. Gauge Code

Color code

Color of insulation (No. of cores = 1)	Color of marking	
	All gauges except AWG 22	Blue
●	AWG 22	Green

Unshielded
Single core

ADA zz FR A yy

1 2

Shielded & jacketed
Single core

VNA zz FR A yy

1 2

Multi-core

ADB zz FR A yy
ADC zz FR A yy
ADD zz FR A yy

1 2

Multi-core

VNB zz FR A yy
VNC zz FR A yy
VND zz FR A yy

1 2

Color code cores

Color of insulation				Color of marking
No. of cores in cables				
1	2	3	4	Black
	 	  	   	

Colors (from left to right): 1 Grey, 2 Red-Blue, 3 Red-Blue-Yellow, 4 Red-Blue-Yellow-Green

Color code jacket

Color of jacket	Gauge (AWG)	Color of marking
●	All 10 to 24	Green

M22759 SERIES

AS 22759 WIRES

Characteristics:

High-performance hook-up wires
M22759/180-/192: **SMOOTH OUTER SURFACE**

Voltage rating:

600 V (rms)*

Core:

T: Tin coated copper
S: Silver coated copper
S+: Silver coated high-strength (20-24 AWG) or ultra-high-strength (26 AWG) Copper alloy
N: Nickel coated copper
N+: Nickel coated high-strength (20-24 AWG) or ultra-high-strength (26 AWG) Copper alloy

Insulation:

Special polyimide and PTFE tapes

Braid:

Meta-aramid fiber



Marking

M22759/X-Y F1868 REV Z

1234

1. Reference (X: 80-92/180-192)
2. Gauge code
3. Manufacturer's identification
4. Revision of the specification

Standard	AWG		Temperature (°C)		Core					Braid	Weight	
	Min.	Max.	Min.	Max.	T	S	S+	N	N+		Light	Normal
M22759/80 - /92												
AS22759/80	26	10	-65	150	●						●	
AS22759/81	26	20	-65	200			●				●	
AS22759/82	26	20	-65	260					●		●	
AS22759/83	8	0000	-65	200		●				●		●
AS22759/84	8	0000	-65	260				●		●		●
AS22759/85	8	0000	-65	150	●					●		●
AS22759/86	26	0000	-65	200		●						●
AS22759/87	26	0000	-65	260				●				●
AS22759/88	26	0000	-65	150	●							●
AS22759/89	26	20	-65	200			●					●
AS22759/90	26	20	-65	260					●			●
AS22759/91	26	10	-65	200		●					●	
AS22759/92	26	10	-65	260				●			●	
M22759/180 - /192												
AS22759/180	26	10	-65	150	●						●	
AS22759/181	26	20	-65	200			●				●	
AS22759/182	26	20	-65	260					●		●	
AS22759/183	8	0000	-65	200		●				●		●
AS22759/184	8	0000	-65	260				●		●		●
AS22759/185	8	0000	-65	150	●					●		●
AS22759/186	26	0000	-65	200		●						●
AS22759/187	26	0000	-65	260				●				●
AS22759/188	26	0000	-65	150	●							●
AS22759/189	26	20	-65	200			●					●
AS22759/190	26	20	-65	260					●			●
AS22759/191	26	10	-65	200		●					●	
AS22759/192	26	10	-65	260				●			●	

* This insulation system has been used in aerospace applications that employ 115 V (phase to neutral), 400 Hz AC and 28 V DC. Verification of the suitability of this product for use in other electrical system configurations is the responsibility of the user.

M27500 SERIES

NEMA WC 27500 CABLES

Special purpose and power electrical cables designed for aerospace, commercial, and military applications and high-performance vehicles.



Cable designation

M27500 - 22 WK 2 N 24

1234567

1. Identification number
2. Identification method of cable wire and coverage (I)
3. Conductor size (II)
4. Basic wire specification (III)
5. Numbers of wires in cable (IV)
6. Shield style and material (V)
7. Jacket material (VI)

Characteristics						
Operating temperature: -65°C to +150°C/+200°C/+260°C* (ambient temperature + current heating)						
Standards and specifications						
Cable specification: NEMA WC 27500 Wires specification: AS22759/80 to /92 and AS22759/180 to /192						
Combination possibilities						
ID number	I	II	III	IV	V	VI
M27500	-	26	DB	1	NF (prev.: *)	00
	A	24	DC	2	ND (prev.: #)	06
	B	22	DE	3	HS (prev.: \$)	11
	C	20	DF	4	HD (prev.: +)	12
	D	18	DG	5	A	24
	E	16	DH	6	B	25
	F	14	DJ	7	C	56
	G	12	DK	8	D	61
	H	10	DL	9	E	62
	J	8	DM	10	F	74
	K	6	DN	11	G	75
	L	4	DP	12	H	
	M	2	DR	13	I	
	N	1	WB	14	J	
	P	01	WC	15	K	
	R	02	WE		L	
	S	03	WF		M	
	T	04	WG		N	
	U		WH		P	
	V		WJ		Q	
			WK		R	
			WL		S	
			WM		T	
			WN		U	
			WP		V	
			WR		W	
					X	
					Y	
					Z	

*Depending on the type of basic wires, shield or jacket requested.

FLIGHT-TEST CABLES

BG/SU/TV/VF-CABLES

Characteristics: Flight-test cables
Temperature range: -55°C to +260°C
Operating voltage: 250 V
Conductor: Nickel plated copper, solderable (BG, SU, TV, VF)
Insulation: PTFE tape
Shield: Nickel plated copper
Jacket: Polyimide tape and PTFE tape
Jacket color: Orange



Cable family	Standard	AWG	Number of cores	Additional PTFE tape around cores	Shielded		Jacketed	UV-laser marking
					Spiral	Braid		
BG	ASNE0409	24	1					●
SU	ASNE0410	24	1 x BG		●		●	●
TV	ASNE0411	24	2 x BG	●	●		●	●
VF	ASNE0412	24	4 x BG	●	●		●	●

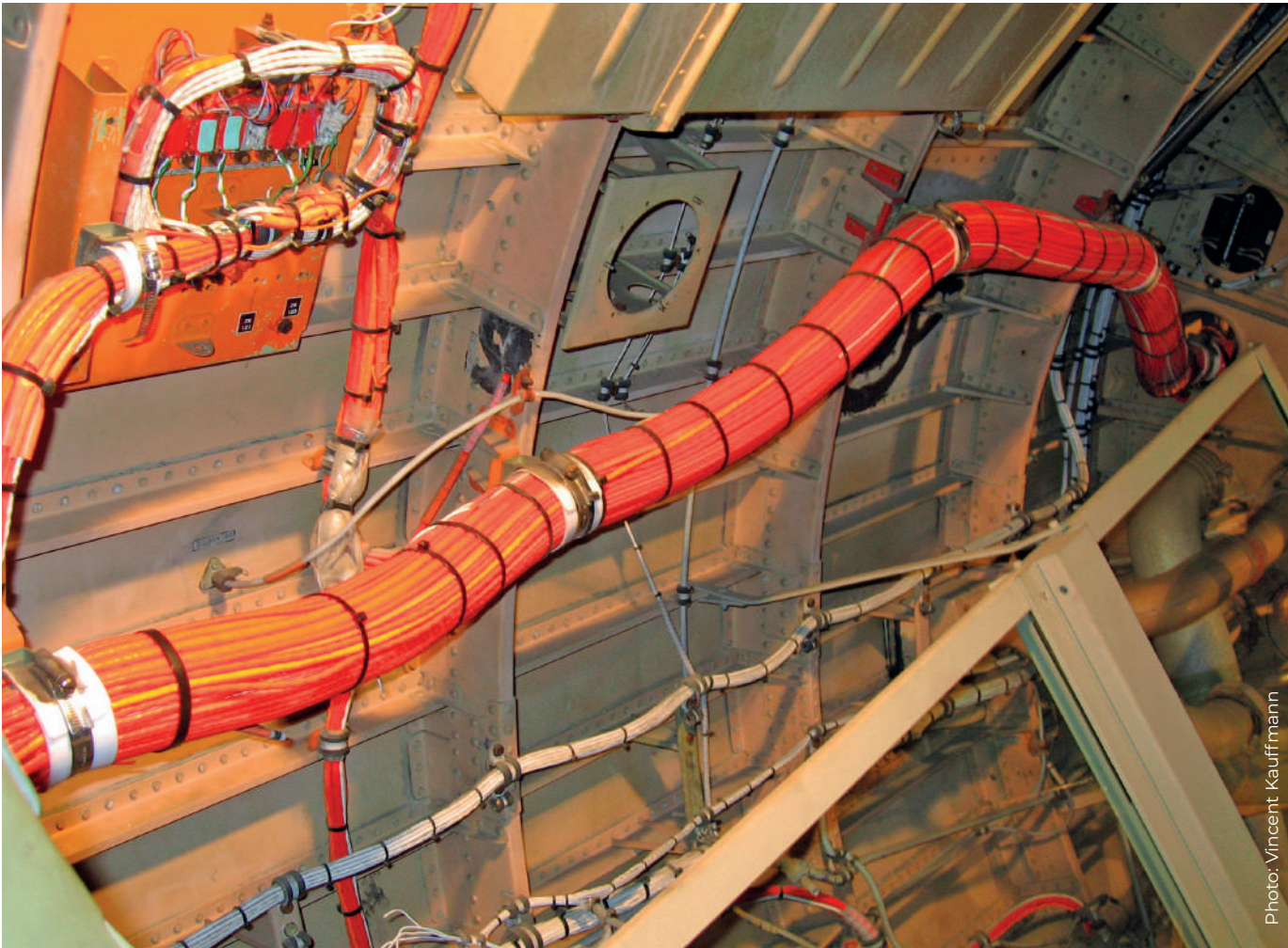


Photo: Vincent Kauffmann

POWER FEEDER CABLES

A1715-, DG - CABLES

Characteristics: Auto-extinguishing properties, non-flammable
Network: 115 V AC
Temperature range: -90°C to +260°C (A1715)
-55°C to +260°C (EN 2854-003 DG)
Conductor: Nickel plated copper
Insulation: Composite polyimide, fiber glass, PTFE
Shield: Nickel plated copper



Cable family	Standard	AWG		Number of cores	UV-laser marking
		Min.	Max.		
A1715	Dassault Spec.	24	0000	1	
NSA 935131 DG	NSA 935131 DG	10	0000	1	
EN 2854-003 DG	EN 2854-003	08	0000	1	

DH - SERIES

Characteristics: LOW-BENDING RADIUS
Network: 115 V AC
Temperature range: -65°C to +260°C
Conductor: Nickel plated copper
Insulation: Composite PTFE
Color: Light yellow
Shield: Nickel plated copper



Cable family	Standard	AWG	Number of cores	UV-laser marking
DH	ECS0844	4 - 2 - 0 - 00	1	

AD - SERIES

Characteristics: Arc-tracking resistant, LIGHT-WEIGHT
Network: 115 V AC
Temperature range: -55°C to +180°C
Conductor: Unplated aluminum
Insulation: Composite polyimide, PTFE
Color of PTFE: Grey
Shield: Nickel plated copper



Cable family	Standard	AWG		Number of cores	UV-laser marking
		Min.	Max.		
AD	PR EN4681-003*	03	000	1	●
ADB	PR EN4681-004**	03	000	2 x ADA	
ADC	PR EN4681-004**	03	000	3 x ADA	
ADD	PR EN4681-004**	03	01	4 x ADA	

* analogy with ABS0949 - ** analogy with ABS1354



Notre engagement vers une croissance plus durable

Chez Prysmian, l'innovation est la clé de voûte de notre démarche RSE*, propulsant cet engagement vers des solutions durables et ambitieuses.

Chaque jour, nous nous investissons pour garantir la santé, la sécurité et le bien-être au travail tout en promouvant l'égalité et l'inclusion. Notre démarche vise à atteindre la neutralité carbone, préserver l'environnement tout en offrant des produits et solutions durables et innovants.



*Responsabilité Sociétale de l'Entreprise



The planet's pathways

HIGH-VOLTAGE CABLES (230V)

AZ-SERIES

Characteristics: Suitable for **HIGH-VOLTAGE NETWORKS (230V)**
Temperature range: -65°C to +180°C
Network: **230 V AC**
Conductor: Unplated aluminum
Insulation: Polyimide and PTFE tapes



Cable family	Standard	AWG	Number of cores	Shielded		Jacketed	UV-laser marking
				Spiral	Braid		
Single core							
AZ	ABS2430	00, 1, 3	1				●
AZA	ABS2431	00, 1, 3	1				
Multi-core							
AZB	ABS2431	00, 1, 3	2 x AZA				
AZC	ABS2431	00, 1, 3	3 x AZA				

EN STANDARD

DZ-SERIES

Characteristics: Suitable for **HIGH-VOLTAGE NETWORKS (230V)**
Temperature range: -65°C to + 260°C
Network: **230 V AC**
Conductor: Nickel plated copper
Insulation: Polyimide and PTFE tapes



Cable family	Standard	AWG	Number of cores	Shielded		Jacketed	UV-laser marking
				Spiral	Braid		
Single core							
DZ	EN2267-012	8, 10, 12, 16	1				●
Multi-core							
DZB	EN2267-011	10, 12, 16	2 x DZ				
DZC	EN2267-011	10, 12, 16	3 x DZ				



DATA TRANSMISSION

COAXIAL CABLES

Characteristics:
Temperature range:
Conductor:

Insulation:
Shield:

Non-flammable
-100°C to +200°C
SC: Silver plated copper
SCCS: Silver copper-clad steel, except SW (Nickel plated)
Polyimide and PTFE tapes
Silver plated copper braid

CU

Contact us

Cable family/ reference	Standard	Ø max. (mm)	Z (Ω)	Temperature range (°C)		Conductor material		Shield (No. of braids)	Jacket
				Min.	Max.	SC	SCCS		
XF	ASNE0293 M17/128 00001 RG400U	5.10	50	-55	200	●		2	FEP
SW	ASNE0291	1.95	n/a	-90	200			1	Polyimide/ FEP
F1703-93	Dassault spec.	4.30	50	-55	200	●		2 + tape	FEP
F1703-94	Dassault spec.	8.25	50	-55	200	●		2	FEP
F1709-72U-AG	Dassault spec.	3.30	50	-65	150	●		2 + tape	FEP
XK	NSA935348 M17/110 RG302AB	5.20	75	-55	200		●	1	FEP

TWINAX-BUS CABLES

Characteristics:
Temperature range:
Conductor:
Insulation:
Shield:

Suitable for harsh environments
-65°C to +200°C
Silver-plated copper alloy
PTFE
SC: Silver-plated copper braid
NC: Nickel-plated copper braid

CU



Cable family/ reference	Standard	Ø max. (mm)	AWG	Z (Ω)	Temperature range (°C)		Max. weight (kg/km)	Shield material (No. of braids)		Jacket material	Jacket color	High immu- nity
					Min.	Max.		SC	NC			
F2703-48U A	Dassault spec.	3.90	24	77	-65	200	37.0	2		FEP	Red	
F2703-48U B	Dassault spec.	3.90	24	77	-65	200	37.0	2		FEP	Blue	
WJC	EN3375-004C	3.90	24	77	-65	200	37.0	2		Fluoropolymer	White*	
WW F2703-72	EN3375-007	3.00	26	77	-65	200	21.0	2		Fluoropolymer	White	
F2709-12		5.35	20	75	-55	200	78.0	2 + tapes		Polyimide/ PTFE	White	●
F2709-9		4.80	22	75	-55	200	53.0	2 + tapes		Polyimide/ PTFE	White	●
F2709-13		4.10	24	75	-65	200	43.0	2 + tapes		Polyimide/ PTFE	White	●
F2709-35		2.60	30	75	-65	200	16.5	2 + tapes		Fluoropolymer	Red	●
WF F2703-37	ABS0386	3.50	24	100	-55	200	23.4		1	Polyimide	Natural (Amber)	
XM F2703-30	ASNE0290XM	3.10	24	78	-55	200	15.0		1	Polyimide	Natural (Amber)	

*3 marking colors

DATA TRANSMISSION

QUAD CABLES

Characteristics:
Operating temperature:
Conductor:

Insulation:
Shield:

INFLIGHT-APPLICATIONS
-55°C to +125°C, except AS6070/1: -55°C to 200°C
SCA: Silver plated copper alloy
SPC: Silver plated copper
Fluoropolymer or PTFE foam skin or foam-extruded fluoropolymer
Silver plated copper braid

CU



Cable family/ reference	Standard	Ø max. (mm)	AWG	Z (Ω)	Conductor		Shield material (No. of braids)	Jacket	High immu- nity	UV laser marking
					SCA	SPC				
KB F 4704-4	ABS0972 ARINC 664	5	24	100		●	1	FEP		●
KD F 4704-5	ABS1503 ARINC 664	5	24	100		●	1	FEP		●
F 4704-6		4.05	26	100		●	1	FEP		●
F 4704-8		6.30	24	150		●	1	FEP		●
F 4704-9		5	26	150	●		1	FEP		●
F 4709-6		5.55	24	100		●	1 + High permeability screen	Fluoropolymer	●	●
KL F 4704-19 [Replaces KL F4704-13]	EN3375-011	4.50	24	100		●	Inner: AL/Mylar Outer: Round	FEP		●
AS6070/1	AS6070/1*	4.32	24	100	●		Inner: Flat Outer: Round	FEP		●**

* different variances possible: see FT 430 - ** Available in UV-Laser markable [4th digit jacket detail: U] and non-UV-Laser markable [no 4th digit on jacket] versions.

ETHERNET - USB - HDMI

Characteristics:
Operating temperature:
Conductor:

Insulation:
Shield:
Jacket:

VERY HIGH DATA-RATE CABLES
Max. 125°C
SPC: Silver plated copper
NPC: Nickel plated copper
Fluoropolymer
1 silver plated copper braid and tape
Fluoropolymer

CU

Contact us

Cable family/ reference	Category	Ø max. (mm)	AWG	Z (Ω)	Max. weight (kg/km)	Conductor		Wire construction	Transmission pairs	
						SPC	NPC		Shielded	Unshielded
Ethernet										
F 4709-8	5e	5.50	26	100	51	●		Data patch		●
F 4709-11	5e	7.20	24	100	80	●		Data patch		●
F 4709-5	7	8.70	24	100	100	●		Data patch	●	
F 4709-13	7	7.80	26	100	90	●		Data patch	●	
USB 2.0										
F 4709-17	USB2 compatible	4.10	24	90	33	●	●	With DR wires		●
HDMI										
F 6774-3	HDMI	12.00	24	100	175	●		Data patch	●	

OPTICAL FIBER CABLES

High-speed fiber networks are increasingly required in numerous aerospace applications, such as avionics and inflight-entertainment, to transmit high volumes of data while gaining weight-savings.

Responding to that demand, Prysmian is producing its own optical fibers to ensure the best performance levels in these harsh and demanding environments:

- Interference-free solutions,
- Space-savings due to smaller size and bending radius,
- Easy plugging and installation.



SINGLE & MULTI-MODE FIBER CABLES

Characteristics: Suitable for use in harsh environments, up to 10Gbits/s, Tight and semi-loose cables, **EASY TERMINATION**

Temperature range: -55°C to +150°C

Jacket: Fluoropolymer

Color: Light purple



Cable family/ reference	Short designation	Ø nom. (mm)	Max. weight (kg/km)	Temperature range (°C)		Utilized fiber*	Tight/ semi loose	Flexibility (D= Outer diameter)	Max. attenuation (dB/km 20°C)		Data rate** (Gbps)
				Min.	Max.				850nm	1300nm	
Multi-mode											
F1913-12	LG	1.80	4.00	-65	+135	OM3 bend insensitive	T	5 x D	4.0	2	10
F1913-14	LF	1.80	4.00	-55	+135	OM1	T	5 x D	4.0	2	1
F1913-16		1.85	4.95	-55	+150	OM4 bend insensitive	S	10 x D	3.5	1	10
F1913-17		1.85	4.95	-55	+150	OM1	S	10 x D	3.5	1	1
F1913-18		1.80	5.00	-65	+110	105 µm opto-pyro	T	10 x D	11.0	n/a	n/a
F1913-23		1.80	5.00	-65	+125	400 µm LIFI	T	10 x D	12.0	n/a	1
F1919-2		2.78	12.20	-55	+150	OM1	S	10 x D	6.0	3	1
F1919-3		2.78	12.20	-55	+150	OM4 bend insensitive	S	10 x D	6.0	3	10
JN1008		2.50	7.00	-60	+150	S200/280 15B20	T	12 x D	20.0	n/a	n/a
Single-mode											
F1913-15	LK	1.80	4.0	-65	+135	Bend insensitive	T	5 x D	1310nm	1550nm	10
									0.5	0.4	

* Adaptation to other cores upon request. ** Depending on the length of the link the data rate can also be higher.

MULTI-FIBERS

Characteristics: Very high data rate, suitable for use in harsh environments, Loose cables

Temperature range: -55°C to +135°C

Jacket: Fluoropolymer

Color: Light purple

Cable family/ reference	Short designation	Ø nom. (mm)	Max. weight (kg/km)	Temperature range (°C)		Utilized fiber*	Loose	Flexibility (D= Outer diameter)	Max. attenuation (dB/km 20°C)		Data rate** (Gbps)
				Min.	Max.				850nm	1300nm	
F1919-4		2.90	8	-55	+135	OM3 bend insensitive	Yes	5 x D	11	/	120

* Adaptation to other cores upon request. ** Depending on the length of the link the data rate can also be higher.

THE PORTFOLIO OF FIBERS WITHIN PRYSMIAN CURRENTLY COMPRISES:

MULTI-MODE FIBERS

- OM-1
- OM-2
- OM-3 (Bend insensitive)
- OM-4 (Bend insensitive, WideCap or MaxCap-BB)

SINGLE-MODE FIBERS

- G.652 Series
- G.654 Series
- G.655-G.656 Series
- G.657 Series

SPECIALTY FIBERS Draka Elite™

- Bend bright™
- High-temperature resistant (Acrylate, silicone)
- Rad hard (MIL-PRF-49291)



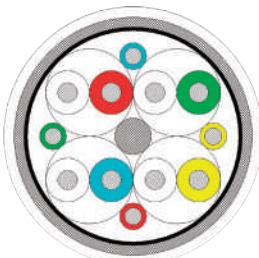
VARIOUS DESIGNS

COMPLEX DESIGNS

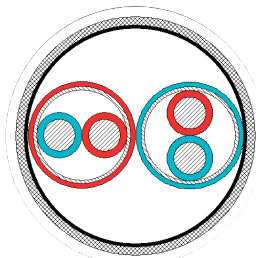
Characteristics: Combining multiple elements
Temperature range: -65°C to +200°C
Network: Dedicated networks
Conductor: Silver plated copper (Gigabit ethernet), nickel plated copper (DR)
Insulation: Fluoropolymer/PTFE
Jacket: Fluoropolymer
Shield: Silver plated copper braid (SPC), nickel plated copper braid (NPC)



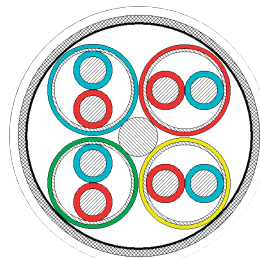
Cable family	Standard	Ø max. (mm)	AWG	Temperature range (°C)		Max. mass (kg/km)	Conductor	Shield
				Min.	Max.			
F8704-16		8.70	24	-55	+125	127	Gigabit ethernet S-STP Cat. 7+ DR	SPC + tape
MQB F 2744-7	ECS0828	5.90	24	-65	+200	46	2 x MLB	NPC
MQD F 4744-8	ECS0829	6.80	24	-65	+200	77	4 x MLB	NPC
F 5604-5 HG24	ASNE0300 like DR cores	9.30	24	-55	+200	143	4 x 2 pairs + 1x MLC24	NPC



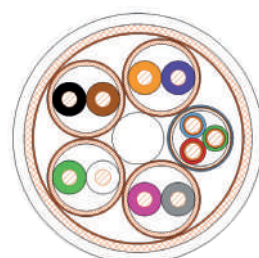
F8704-16



MQB F 2744-7



MQD F 4744-8



F 5604-5 HG24

THERMOCOUPLES

Characteristics: Temperature sensing and measurements
Temperature range: -55°C to +260°C
Conductor: Nickel-chrome (NiCr), nickel-aluminum (NiAl), nickel plated copper (NPC), copper (CU), constantan (Ctt; copper-nickel alloy)
Insulation: Polyimide and PTFE tapes
Shield: Nickel plated copper (NPC), copper-tin alloy (SnCu)



Cable family	Standard	Ø max. (mm)	AWG	Temperature range (°C)		Nom. mass (kg/km)	Cores	EMF* (mV at 100°C)	Jacket	Shield
				Min.	Max.					
F2793-33	ASNE (Elements recognition)	4.24	22	-55	+260	26.30	NiCr/NiAl	4.100	●	NPC
F2793-22	NSA (Elements recognition)	4.25	22	-55	+260	26.30	NiCr/NiAl	4.100	●	NPC
F2794-14	ABS1704	3.60	24	-95	+200	24.40	NiCr/NiAl	4.100	●	SnCu
F2794-14 NI	ABS1704	3.60	24	-95	+200	24.40	NiCr/NiAl	4.100	●	NPC
F2794-32		4.00	22	-95	+260	26.50	NiCr/NPC	6.320	●	NPC
F2790-12		0.82	30	-55	+260	4.00	Cu/Ctt	4.270		
TR250-NZ-22BLG-T344		3.60	24	-95	+200	18.40	NiCr/NiAl	4.095	●	SnCu

* EMF: Electromotive Force

VARIOUS DESIGNS

OTHER DESIGNS

Characteristics: Diverse applications
Temperature range: -90°C to +200°C
Network: Refer to table
Insulation: PTFE (BF & NEMA HP3 wires), ETFE (BN)
Shield: Silver plated copper braid



Cable family	Standard	AWG		Conductor	Temperature range (°C)		Operating voltage	Shield	UV-laser marking
		Min.	Max.		Min.	Max.			
High-flexibility airframe wires									
BF	ASNE0260	24	18	Nickel + Silver plated copper	-55	200	600		
Equipment interconnect cables – 600 V									
BN	ASNE0719	24	16	Silver plated copper alloy (AWG 24), Tin plated copper (AWG 16 to 22)	-90	150	600		●
NEMA HP3 wires (former MIL W 16878)									
ET		32	20	Silver plated copper Optional: Nickel plated copper (up to 260°C)	-90	200	250		
E		32	12	Silver plated copper Optional: Nickel plated copper (up to 260°C)	-90	200	600		
EE		32	12	Silver plated copper Optional: Nickel plated copper (up to 260°C)	-90	200	1000		
ET		30	20	ET, E, or EE series exist with 1, 2, or 3 conductors	-90	200	250	●	
E		30	20	ET, E, or EE series exist with 1, 2, or 3 conductors	-90	200	600	●	
EE		30	20	ET, E, or EE series exist with 1, 2, or 3 conductors	-90	200	1000	●	



Our expertise and passion for cables do not end here. Contact us to consult our complete portfolio or discuss customization possibilities with our senior technical team.

Prysmian is the world leader in power and telecommunication cables and systems.

33 000
EMPLOYEES

With more than 150 years' experience, the group operates in high-tech markets, and offers the widest possible range of products, services, technologies and knowhow.

27
R&D CENTRES
WORLDWIDE

AT PRYSMIAN, INNOVATION IS THE BACKBONE OF OUR CSR APPROACH, DRIVING THIS COMMITMENT TOWARDS SUSTAINABLE AND AMBITIOUS SOLUTIONS.

The 4 core commitments of Prysmian's CSR policy

- 1. Carbon neutrality**
- 2. Environmental protection**
- 3. Solidarity, engagement and impact**
- 4. Innovation and sustainable growth**



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