

DO 1x200/280-306 JN1008 B-LA

Cable specification: JN1008, document M J61.610 Edition D; cable type B. Single Silica, step-index, multimode fiber in Silica
Suitable for nuclear radiation resistance



General airframe inter connection cable operating from -60°C up to +150°C



Cable characteristics



-60 +135°C



Excellent

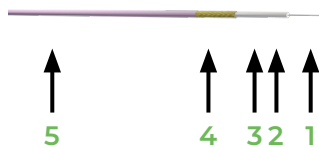
Environmental

- Operating temperature: -60°C to 135°C
- Resistant to contamination and Aircraft fluids

Other characteristics

See page 2

Cable design



1. Optical fiber, step index F-S200/280 15B20
2. Coating: Silicone elastomer, black
3. Inner sheath: ETFE, black
4. Strength members: Aramid yarns
5. Sheath: ETFE colour violet

Identification

JN1008 B-LA

1 2 3

1. Part number
2. Cable type
3. Cable code

Marking

JN1008 M YY

1 2 3

1. Part number
2. Manufacturer's mark
3. Manufacturing year

Colour of cable: Violet

Specifications

Cable Specification

Specification JN1008, document M J61,610 Edition D; cable type B

Dimensional

Order reference	Core Ø	2. Coating Ø	Inner sheath	Strength members	Outer Ø	Weight
	µm	mm	mm	mm	mm	kg/km
DO 1x200/280-306	500±30	0.75±0.05	0.90-0.05	1.90±0.1	2.5± 0.15	7

Other characteristics

DO 1x200/280 - 306

Cable fibre attenuation	$\lambda = 850\text{nm}$	+55nm -40nm	$\leq 20.0 \text{ dB/km}$
Temperature Cycling IEC 793 – 1 D1	-60°C + 150°C during cycling after test at ambient temperature		Attenuation variation $\leq \pm 0.5 \text{ dB}$ $\leq \pm 0.2 \text{ dB}$
Tensile performance BS 6558 part1, clause E3	Applied tension 650 N	Elongation $\leq 0.1 \%$	Attenuation variation No after test
Cable twist bend DOD-STD 1678, method 2060, proc.1 No fibre break	Diameter 25 mm	Nb of cycles 2000	Tensile force 100 N
Minimum bending radius DIN VDE 0472, part 232	Diameter 60 mm	Nb of turns 5	Attenuation variation $\leq \pm 0.8 \text{ dB}$
Repeated bending IEC 794-1, clause E 6 No fibre break	Diameter 12.5 mm	Nb of turns 500	Tensile force 50 N
Crush load BS 6658, clause E 9	Load 150N for 5 min	R 12.5mm - 3.0mm	Attenuation variation $\leq \pm 0.1 \text{ dB}$ $\leq \pm 1.0 \text{ dB}$
Compressive strength IEC 794 –1 clause E3	Load Initially 5000N/ 100mm 2000N/100m for 5 min		Attenuation variation $\leq \pm 0.5 \text{ dB}$
Impact (R = 50mm) DOD-STD-1678, method 2030, proc.2 No splitting or cracking	5 tests 20 impacts	Start energy 1 Nm	Attenuation variation $\leq \pm 0.2 \text{ dB}$ after test
“no attenuation variation” means	The measured value is within the measuring ($\Delta\alpha \leq \pm 0.05 \text{ dB}$)		
Flammability	As EFA document SPE-J-920-A0061 Part C		Compliant



Prysmian câbles et systèmes France

Head Office

23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France
Tel : +33 (0)3 86 95 76 00 - infocables.fr@prysmian.com

Draka Fileca SAS

D 1001 - 60730 Sainte-Geneviève / France
fileca-office@prysmian.com



www.prysmian.com



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