

Authorised Distributor for:

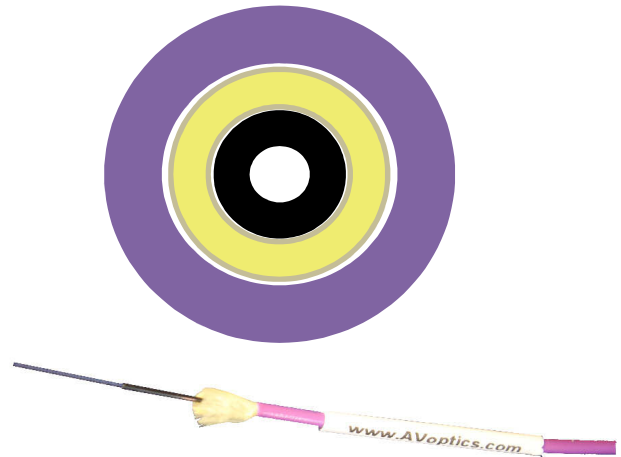


## Simplex Ruggedised Cable – JN1008B-LA (EN4543) 200/280µm cable.

This rugged, high quality fibre cable conforms to the Eurofighter specification JN1008 and EN4543.

As authorised distributors for Prysmian, AVoptics stock this cable.

Its large core makes it particularly suitable for use in harsh environments where it is extremely tolerant to contamination. This fibre can be used in data communication, sensing and high power applications.



### Features and Benefits

#### Cable JN1008B-LA

- Proven fibre cable for harsh environments including aerospace and defence.
- AVoptics Ltd are authorised representatives for the distribution and termination of this cable
- Low minimum order quantity
- Large core fibre gives good resilience to contamination
- High Temperature operational performance -60°C to +150°C

Technical Specification:		
Construction:	Fibre 200/280µm	Step Index F-S 200/280 15B20
Note construction and characteristics of the cable are in accordance with the specification JN1008, document M J 61.610 Edition D; cable type B.	Coating 0,75 ± 0,05mm	Silicone Elastomer, Black
	Inner Sheath 0,90 ± 0,05mm	ETFE, Colour Black
	Strength Member 1,9 ± 0,1mm	Aramid Yarns, longitudinal with spiral wrap of aramid yarns
	Outer Jacket 2,5 ± 0,15mm	ETFE colour Violet
	Marking	JN1008 M YY (Manufacturer's mark YY = Manufacturing year)
	Weight (g/m)	7 g/m

## Technical Specification continued:

### Characteristics:

Cable fibre attenuation	$\lambda = 850\text{nm}$ +55nm -40nm	$\leq 20,0$ dB/km
Temperature Cycling IEC 793 – 1 D1	-60°C - + 150°C during cycling after test at ambient temperature	Attenuation variation $\leq \pm 0,5$ dB $\leq \pm 0,2$ 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 No. of cycles 2000	Tensile force 100 N
Minimum bending radius DIN VDE 0472, part 232	Diameter 60mm No. of turns 5	Attenuation variation $\leq \pm 0,8$ dB
Repeated bending IEC 794-1, clause E 6  No fibre break	Diameter 12,5mm No. 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 $\leq \pm 0,1$ dB $\leq \pm 1,0$ dB
Compressive strength IEC 794 –1 clause E3	Load Initially 5000N/ 100mm 2000N/100m for 5 min	Attenuation variation $\leq \pm 0,5$ 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 $\leq \pm 0,2$ dB after test
"no attenuation variation" means	The measured value is within the measuring ( $\Delta\alpha \leq \pm 0,05$ dB)	



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