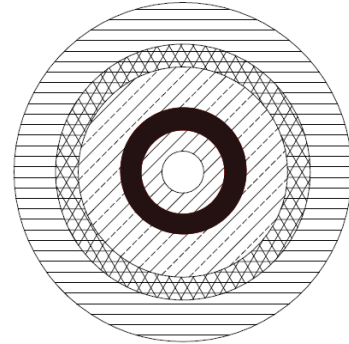


## Optische Datenleitung

## Optical Data Cable

**DO 1x 200/280 - 306**

**Temperaturbereich/  
Temperature range:**  
- 60°C - +135°C



### **AUFBAU**

Lichtwellenleiter  
F-S 200/280 15B20

**Coating:**  
Silikon schwarz

**Innenmantel:**  
ETFE schwarz

**Zugentlastung:**  
Längslaufende Aramidfäden umspinnen mit  
Aramidgarn

**Mantel:**  
ETFE, Farbe: violett

**Kennzeichnung:**  
JN 1008 M YY (M = Hersteller ,YY =  
Herstellungsjahr)

**Anwendungen:**  
Verbindungsleitung für Installation bei allen  
Luftfahrt Anwendungen

**Eigenschaften**  
Konstruktion und Eigenschaften gemäß JN 1008  
Dokument M J 61.610 Edition D Kabel Type B

### **DESIGN**

Optical fibre, step index  
F-S 200/280 15B20

**Coating:**  
Silicone elastomer , black

**Inner sheath:**  
ETFE ,black

**Strength members:**  
Aramid yarns , longitudinal, spiral covering with  
aramid yarns

**Sheath:**  
ETFE colour violet

**Marking:**  
JN 1008 M YY (M = Manufacture's mark, YY =  
Manufacturing year)

**Application:**  
Inter connection cable suitable for installations in  
all aircraft locations

**Properties:**  
Construction and characteristics of the cable are  
in acc with the specification JN 1008, document  
M J 61.610 Edition D; cable type: B



**JN1008B Fibre Optic Cable, Draka**

Simplex, aerospace 200/280µm Multimode Cable

**TechOptics**

Bestellbezeichnung	Kern-Ø	2.Coating-Ø	Innenmantel	Zugentlastung	Außen-Ø	Gewicht
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	7,00

**Characteristics: DO 1x200/280 - 306**

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 Elongation 650 N $\leq 0,1$ %	Attenuation variation No after test
Cable twist bend DOD-STD 1678 , method 2060,proc.1  No fibre break	Diameter No. of cycles 25 mm 2000	Tensile force 100 N
Minimum bending radius DIN VDE 0472, part 232	Diameter No. of turns 60mm 5	Attenuation variation $\leq \pm 0,8$ dB
Repeated bending IEC 794-1, clause E 6  No fibre break	Diameter No. of turns 12,5mm 500	Tensile force 50 N
Crush load BS 6658 , clause E 9	Load R 150N 12,5mm for 5 min 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 Start energy 20 impacts 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)	

For further information and to discuss your application please contact:-

**Tech Optics Ltd.**  
6 Tannery Road  
Tonbridge  
Kent  
TN9 1RF  
UNITED KINGDOM

**TechOptics**

Specifications subject to change without notice.

JN1008 – 2018

**ISO9001:2015**  
for the distribution  
of fibre optic  
products and the  
manufacture of  
fibre optic  
assemblies.



T: +44(0)1732 770 466  
E: [sales@techoptics.com](mailto:sales@techoptics.com)

[www.techoptics.com](http://www.techoptics.com)