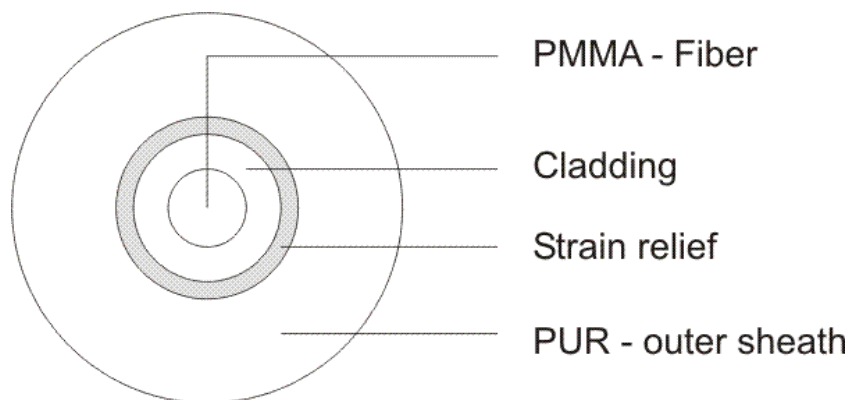


Technical Data Z1101 Fiber Optic Cable

Drawing:



Construction:

<u>Fiber</u>	Plastic-FO 980/1000 µm, PMMA core with Fluorid Polymeric cladding, diameter 1,0 mm
<u>Cladding</u>	PE jacket, nominal diameter 2,2 mm, colour: black
<u>Strain relief</u>	Aramid
<u>Outer sheath</u>	Polyurethan (TPE-U) nominal wall thickness 1,4 mm, colour: orange, Outer diameter (nominal value) 5,5 mm Label black: BECKHOFF INDUSTRIE ELEKTRONIK Z1101 – I, (meter)

Usage:

Suited for applications in industrial environment.
For applications with light mechanical stress, as well as laying in cable ducts or conduits.
High flexibel for moving applications.

Transmission Data:

<u>Attenuation</u>	at 650 nm (Laser)	< 190 dB/km
	at 660 nm (LED)	< 290 dB/km
<u>Bandwith – lenght - ratio</u>	at 650 nm	> 10 MHz x 100 m
<u>Numerical Apertur</u>	0,50	

Mechanical properties:

<u>Bending radius, min.</u>	short-time under stress	70 mm
	permanent	50 mm
<u>Tensile loading</u>	temporary	400 N
	constant	100 N
<u>Transverse pressure</u>	temporary	1000 N/dm
	constant	100 N/dm
<u>Repeated bending</u>	30.000 cycles	
<u>High flexibility test</u>	Radius 10 x Dm., 2 Mio cycles	
<u>Abrasion resistance</u>	acc. DIN VDE 0888, part 100, proc. 502 min. 5000 cycles, 1 mm radius of the steel needle, 500 g	
<u>Weight</u>	ca. 23 kg/km	

Thermal Properties:

<u>Transport and storage</u>	- 40 °C bis + 80 °C
<u>Processing</u>	- 5 °C bis + 50 °C
<u>Operation</u>	- 20 °C bis + 70 °C

Fire properties:

Cabel is flame retardend
Halogen free acc. IEC 60754-2 A1:1997
No corrosive or toxical gases

Chemical properties:

Very good resistance against oils, fats, acids and lyes

Standards:

IEC 60793-2-40 :2002-01