PUR sale

FiberFlex Breakout
AT-V(ZN)12Y(ZN)11Y - 2 x OS2

- breakout construction für direct connector assembly
- special 500 µm primary coating for best fibre protection against mechanical stress
- extremely high tensile strength, crush and impact resistance
- double strain reilief for extreme pull force
- minimum micro bending signal loss
- tight buffered fibres with TPE coating for extreme operating temperatures
- extra thick and UV-resistant PUR jacket

The extra-rugged optical fibre cable FibreFLEX Breakout is designed for mobile applications. It contains two twisted breakout elements suitable for direct connector mounting which are available with a choice of multimode or single-mode fibres. In premade cable models (FibreLink Breakout F2B….) the FibreFLEX Breakout is a low-price alternative to a fibre-optic breakout box. The single-mode optical fibre conducts long-wavelength signals (10 gigabit Ethernet, 1310 nm) across distances of up to 10,000 metres. The optical fibres are coated with a 500-µm acrylate primary coating to give optimum protection against mechanical strain. Longitudinal aramide fibres are incorporated in the individual elements and directly under the cable's outer jacket for strain relief. The element jackets of thermoplastic elastomer (TPE) and extra-thick UV-resistant PUR outer jacket provide further mechanical stability and ensure reliable operation at temperatures from -40°C to +85°C. The cable offers exceptional tensile strength and crush and impact resistance.

design

no. of fibres	2
fiber	single-mode 9/125 OS2
primary coating	Acrylate, 500 µm
core type	tight buffered fibre, 0.9 mm, TPE
strength member (subcable)	longitudinal aramid yarns
element jacket	thermoplastic elastomere, Ø 2.0 mm
twisting	2 breakout-subcables stranded
strain relief (cable)	longitudinal aramid yarns
outer jacket	PUR, black, flame-retardant and UV-resistant
overall diameter	6.6 mm

properties

tensile strength	3000 N acc. to IEC 60794-1-2, procedure E1
crush resistance	4000 N/dm acc. to IEC 60794-1-2, procedure E3
impact resistance	50 impacts with 2.2 Nm acc. To 60794-1-2, method E4
min. bending radius	acc. to IEC 60794-1-2, procedure E11A
installation	10x overall diameter
operation	15x overall diameter
temperature range	
storage	-40°C / +85°C
installation	-20°C / +60°C
operation	-40°C / +85°C
halogen-free	acc. to IEC 60754-2
UV resistance	acc. to DIN EN ISO 4892-2
chemical resistance	very good resistance to oil, petrol, acids and alkaline solutions

fiber category	OS2		
fiber type	single-mode 9/125 µm		
standard		ITU-TG.652.D	
wave length [mm]	1310	1550	1625
attenuation[dB/km]	< 0.35	< 0.21	< 0.23
Gigabit Ethernet 1000 Base-LX (1310 nm)	5.000 m		
10 Gigabit Ethernet 10 GBase-LX4 (1310 nm)	10.000 m		

order code	no. of fibers	fiber type µm	fiber category	cable color	weight kg/m
F-MA2S2	2	Single-Mode 9/125	OS2	black	0.04

technical specifications are subject to change

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