



Optical Fibre Cables

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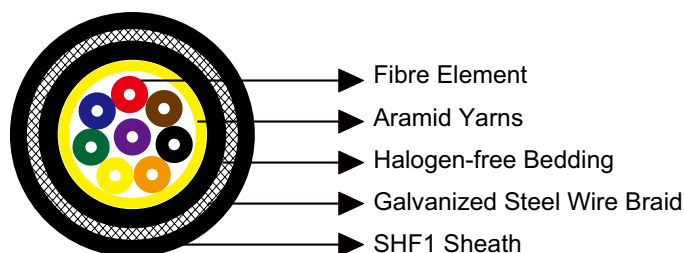
Applications

These optical fibre cables are fire resistant, flame retardant, low smoke and halogen free, used for instrumentation, data and communication systems.



Standards

- IEC 60794
- IEC 60811-2-1
- IEC 60331-25
- IEC 60332-3-24
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004



Construction

- **Fibre Element:** Tight buffered fibres.
- **Central Strength Element:** Fibre reinforced plastic (FRP) and/or aramid yarns.
- **Bedding:** Halogen free and flame retardant thermoplastic compound.
- **Armour:** Galvanized steel wire braid.
- **Outer Sheath:** Halogen free and flame retardant, UV-stabilized, thermoplastic compound, SHF1.

Electrical Characteristics

Fibre Type		9/125	50/125	50/125	62.5/125
ITU-T type		G652.D	G651	G651	-
IEC11801 Classification		OS1 & OS2	OM2	OM3	OM1
Core Diameter	µm	8.7±0.4	50±3.0	50±3.0	62.5±3.0
Cladding Diameter	µm	125 ± 1.0	125 ± 2.0	125 ± 2.0	125 ± 2.0





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Coating Diameter	µm	245 ± 10	245 ± 10	245 ± 10	245 ± 10
Maximum Attenuation					
@850 nm	dB/km	-	3.0	3.0	3.5
@1300 nm	dB/km	-	1.5	1.0	1.5
@1310 nm	dB/km	0.36	-	-	-
@1550 nm	dB/km	0.22	-	-	-
Minimum Bandwidth(OFL*)					
@850 nm	MHz.km	-	500	1500	200
@1300 nm	MHz.km	-	500	500	600
Maximum Chromatic Dispersion					
1285-1330 nm	ps/nm.km	2.8	-	-	-
1550 nm	ps/nm.km	18	-	-	-
Zero Dispersion Wavelength	nm	1300~1324	-	-	-

Mechanical and Thermal Properties

- Bending Radius: 20×OD (during installation); 10×OD (fixed installed)
- Temperature Range: -40°C ~ +70°C

Dimensions and Weight

No. of Fibres	Secondary Coating mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2	0.9	7.8	100
4	0.9	8.2	110
8	0.9	9.4	125
12	0.9	10.3	145
24	0.9	12.0	185

