

F6 AICI



- Fibre Element
- Bedding
- Aramid Yarns
- Armour
- Outer Sheath

<b>Applications :</b>	These optical fibre cables are fire resistant, flame retardant, low smoke and halogen free, used for instrumentation, data and communication systems.
<b>Standards :</b>	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
<b>Fibre Element :</b>	Tight buffered fibres.
<b>Central Strength Element :</b>	Fibre reinforced plastic (FRP) and/or aramid yarns.
<b>Bedding :</b>	Halogen free and flame retardant thermoplastic compound.
<b>Armour :</b>	Galvanized steel wire braid.
<b>Outer Sheath :</b>	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
Coating Diameter	µm	245 ±10	245 ±10	245 ±10	245 ±10
<b>Maximum Attenuation</b>					
@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	-	-	-
<b>Minimum Bandwidth(OFL*)</b>					
@850 nm	MHz.km	-	500	1500	200
@1300 nm	MHz.km	-	500	500	600
<b>Maximum Chromatic Dispersion</b>					
1285-1330 nm	ps/nm.km	2.8	-	-	-
1550 nm	ps/nm.km	18	-	-	-
<b>Zero Dispersion Wavelength</b>	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