



<b>Cable Description</b>	6F+12F+24F+48F MM FANOUT DS ARM
<b>Type of Fibre</b>	Multi Mode 50 (OM2, OM3, OM4) microns

**Introduction**

Fanout double sheath armoured optic cable containing Multi Mode optical fibre cable

**Cable Design**

- \* Tight Buffer Nylon
- \* High Modulus, Aramid yarn as peripheral strength member
- \* The Tight buffer unit consist of single fibre an easily strippable and flexible
- \* LSZH inner sheath
- \* Corrugated ECCS tape armour
- \* LSZH outer sheath

**Application**

- \* The universal design is suited for use in most network arenas, including backbone, access and distribution
- \* Quick fibre preparation ready for installation
- \* Installation within ducts using blown on pulling techniques

**Special Features**

- \* Reduced diameter
- \* Armour provides excellent crush performance

**Cable Physical Characteristics**

<b>Fibre Count</b>	6	12	24	48
Number of Fibres in a Tight Buffer	1	1	1	1
Number of Tight Buffer	6	12	24	48
Cable Diameter (mm)	10.5	11.5	13.4	15.6
Tolerance ± (mm)	0.5	0.5	0.5	0.5
Nominal Cable Weight (kg/km)	120	140	195	245
Standard Length (meters)	1000/2000 ± 10%			

**Cable Mechanical & Environmental Characteristics**

Test	Standard	Product Performance
Temperature Range (°C)	[IEC 60794-1-2-F1]	Operation: -15 °C to +70 °C, Installation: -15 °C to +70 °C & Storage: -20 °C to +70 °C
Cable Bending Radius (mm)	[IEC 60794-1-2-E11 A]	20 x D (D=Diameter of Cable)
Kink Resistance (mm)	[IEC 60794-1-2-E10]	10 x D (D=Diameter of Cable)
Tensile Force (N)	[IEC 60794-1-2-E1]	700
Impact Resistance (Nm)	[IEC 60794-1-2-E4]	Height 0.5 meters, Weight = 1 Kg, 3 Nos
Repeated Bending	[IEC 60794-1-2-E6]	25 Cycle, r = 20 X D, D = Cable Diameter
Crush Resistance (N)	[IEC 60794-1-2-E3]	1000 [100 X 100 mm] for 60 sec
Torsion Resistance	[IEC 60794-1-2-E7]	10 Cycle, ± 180°, Length under Test 2 meters

**Note: After the Test, Change in Attenuation shall be ≤ 0.1 dB/Km at 1300 nm for Multi Mode . No Fibre Break & Damage or Crack on the Cable**

**Cable Transmission Characteristics**

<b>Fibre Type</b>	For G.657A1	For G.657A2	50 microns	62.5 microns
Attenuation at 1310 nm (dB/Km)				
Attenuation at 1550 nm (dB/Km)				
Attenuation at 850 nm (dB/Km)			≤ 3.5	
Attenuation at 1300 nm (dB/Km)			≤ 1.5	
Polarization Mode Dispersion PMD (ps/sqrt.km)				
Cable Cut Off (nm)				
Mode Field Diameter MFD at 1310 nm (µm)				

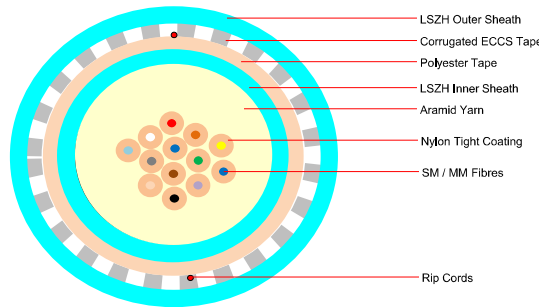




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**Cable Constructional Details**

**Cable Cross Sectional Diagram of 12F Cable [Drawing not to scale]**



**Identification Fibre & Tight Buffer Colour**

Fibre Colour for 6F Cable	Blue	Orange	Green	Brown	Slate	White							
Fibre Colour for 12F Cable	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	
Fibre Colour for 24F Cable	without Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	with Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Natural	Yellow	Violet	Rose	Aqua
Fibre Colour for 48F Cable	without Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	with One Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Natural	Yellow	Violet	Rose	Aqua
	with Two Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Natural	Yellow	Violet	Rose	Aqua
	with Three Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Natural	Yellow	Violet	Rose	Aqua

Tight Buffer	Natural colour, Nylon, 900 micron nominal
Peripheral Strength Member	Aramid Yarn
Inner Sheath	LSZH For Multi Mode OM1 & OM2: Orange Colour For Multi Mode OM3 & OM4: Aqua Colour
Covering over Inner Sheath	Polyester Tape
Rip Cord	Two below Armour
Armour	Corrugated ECCS Tape
Outer Sheath	LSZH For Multi Mode OM1 & OM2: Orange Colour For Multi Mode OM3 & OM4: Aqua Colour

**Proposed Printing Details & Method at every meters**

Printing Method & Colour (Can be customised)	Inkjet	CABLE ID Customer/Project Name Telephone Symbol, Laser Symbol, Number of Fibres, Type of Fibre Type of Cable YYYY Manufacturer Name Sequential Meter Marking
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**Proposed Stenciling on Drum**

Every length will be delivered on non-returnable wooden drums. Generally the cable drum flange will be marked with following: (These details can also be customised.)	<ul style="list-style-type: none"> <li>* Arrow showing the direction, the drum can be rolled.</li> <li>* Country of origin.</li> <li>* The manufacturer's name</li> <li>* Number of fibers.</li> <li>* Nominal cable length in meters</li> <li>* Net and gross weight.</li> <li>* Drum number</li> <li>* Customer's/Project name and destination</li> </ul>
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