

# Distribution Series Fibre Optic Cable



Distribution series cable is ideal for installations requiring a flexible, lightweight and reliable cable design where excellent mechanical and environmental protection remain necessary.

The balance between compact size and rugged construction make distribution the preferred cable for many preterminated cable assemblies or site terminated fibre networks.



## KEY FEATURES

- Low smoke, zero halogen jacket and materials
- High performance components and construction
- Complies with relevant ITU, IEC and UL codes, standards & specifications
- High strength to weight ratio allows for easy handling
- Aramid yarn strength member and all dielectric cable construction
- 900um buffer eliminates the need for costly and time consuming fanout kits or pigtail splices because connectors terminate directly to the fibre
- Cable materials are indoor/outdoor – UV, water and fungus resistant
- Wide operating temperature range of -20°C to +70°C
- 2 to 24 fibres

## Application

- Suitable for indoor/outdoor confined spaces
- Building risers
- Cable trays
- Central offices
- Campus networks



## Fibre Performance

Fibre type	OM1	OM3 (G651)	OM4 (G651)	SM (G652.D)
Attenuation at 850nm (db/km)	≤3.5	≤3.0	≤3.0	n/a
Attenuation at 1300/1310nm (db/km)	≤1.5	≤1.0	≤1.0	≤0.40
Attenuation at 1550nm (db/km)	n/a	n/a	n/a	≤0.30
Bandwidth at 850nm (MHz.km)	≥200	≥1500	≥3500	n/a
Bandwidth at 1300nm (MHz.km)	≥500	≥500	≥500	n/a



Test to IEC 60793-1-40 (method C)

## Technical Specifications

		<b>SMF (1550nm)</b>	<b>MMF (1300nm)</b>	
<b>Temperature cycle</b>	20 to -20 to 70 to 20 2 cycles, 8 hours	≤ 0.2	≤ 0.3	(IEC 60794-1-2-F1)
<b>Tensile attenuation (Δ dB)</b>	Installation & operational loads	≤ 0.2	≤ 0.3	(IEC 60794-1-2-E1)
<b>Torsion resistance (Δ dB)</b>	5 Cycles (± 180°) 30 N, 2m	≤ 0.2	≤ 0.3	(IEC 60794-1-2-E7)
<b>Crush resistance (Δ dB)</b>	1000 N/100mm, 5 min	≤ 0.2	≤ 0.3	(IEC 60794-1-2-E3)
<b>Impact resistance (Δ dB)</b>	10J, 3 points, 1 impact	≤ 0.2	≤ 0.3	(IEC 60794-1-2-E4)
<b>Water penetration</b>	1m head, 3m cable, 24 hours	Nil leakage of water		(IEC 60794-1-2-F5)
<b>Flame retardant</b>	As per IEC test	Pass	Pass	(IEC 60332-1)

## Cable Characteristics

Fibre Count	Nominal diameter (mm)	Nominal weight (kg/km)	Installation tensile load (N)	Operational tensile load (N)	Min. bend radius (cm)
2	4.3	18	450	250	4.5
4	4.7	22	450	250	4.5
6	5.3	28	450	250	4.5
8	6.1	34	600	300	6.0
12	6.5	41	600	300	6.0
24	9.0	72	1000	500	10.0

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