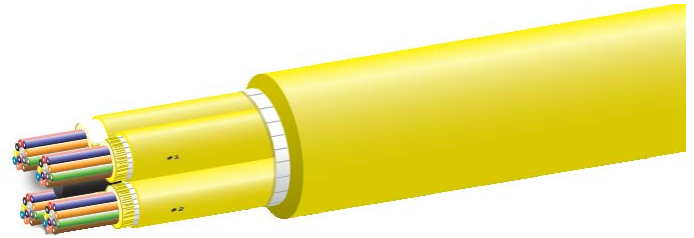


Subgroup Series Fibre Optic Cable



Subgroup series cable is ideal for installations requiring a reliable cable design with separable subunits where excellent mechanical and environmental protection remain necessary.



This cable provides excellent fibre protection, yet is simple to separate out into clearly marked subcables in convenient 12 fibre groups.

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 (*MM 600um)
- Cable materials are indoor/ outdoor – UV, water and fungus resistant
- Wide operating temperature range of -20°C to +70°C
- 48 to 144 fibres

Applications

- 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

		SMF (1550nm)	MMF (1300nm)	
Temperature cycle	20 to -20 to 70 to -20 to 70 to 20 1 cycles, 12 hours	≤ 0.1	≤ 0.3	(IEC 60794-1-2-F1)
Tensile attenuation (Δ dB)	Installation & operational loads	≤ 0.1	≤ 0.3	(IEC 60794-1-2-E1)
Torsion resistance (Δ dB)	5 Cycles (± 180°) 50 N, 2m	≤ 0.1	≤ 0.3	(IEC 60794-1-2-E7)
Crush resistance (Δ dB)	1000 N/100mm, 5 min	≤ 0.1	≤ 0.3	(IEC 60794-1-2-E3)
Impact resistance (Δ dB)	7.5J, 25mm radius, 1 impact	≤ 0.1	≤ 0.3	(IEC 60794-1-2-E4)

Cable Characteristics 5.5mm 12 Fibre Subcables

Fibre Count	Diameter ±0.7 (mm)	Nominal weight (kg/ km)	Installation tensile load (N)	Operational tensile load (N)	Min. bend radius instal- lation (cm)	Min. bend radius long term (cm)
Singlemode (multimode)						
48	16.4 (13.3)	211 (139)	2500 (1200)	2500 (600)	24.6 (20.0)	16.4 (12.0)
Singlemode only						
72	19.6	313	3000	3000	29.4	19.6
96	22.9	443	14900	4950	34.4	22.9
144	26.0	476	22100	7350	39.0	26.0

Note: 48F multimode cable contains 600um buffered fibre only

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