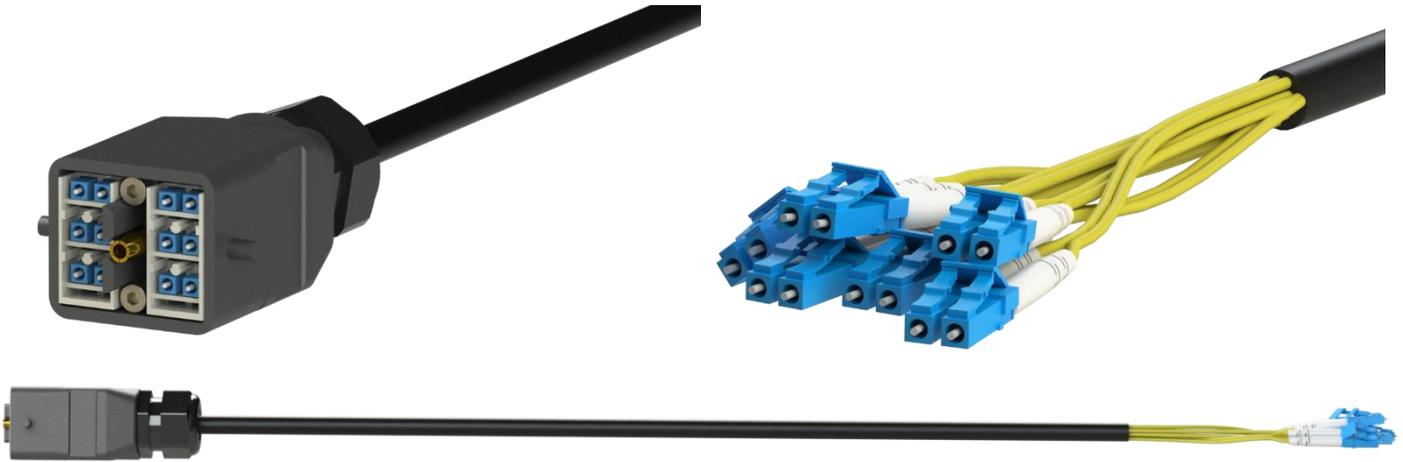




# Product specification

## 12 core H-Mod Male to LC Horizontal fibre trunk cable



### Description

Multicore fibre trunk fanout cable. 12 core SM outdoor armoured fibre cable, 8.5mm OD, 10m length with one end staggered fan out of 1000mm to 1200mm, using indoor 3mm OD yellow fibre terminated with 6 x duplex LC connectors. Second end IP68 H-mod Male connector comprising of 12 x LC connectors.

### General Specification

Insertion Loss	LC/UPC $\leq 0.25$ dB $\lambda$ : 1310&1550nm * Insertion loss is measured according to the IEC 61300-3-34 [20] method 1
Return Loss	LC/UPC $\geq 50$ dB $\lambda$ : 1310&1550nm * Return loss is measured according to the IEC 61300-3-6 [17]
Mating cycles	$\geq 500$
Operating Temperature	-40°C to +85°C
Compliance	CE; RoHS V2 directive 2011/65/EU; WEEE directive 2002/96/EC; REACH;
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Material (seal)	NBR
Material (insert)	Polycarbonate (PC)
Cable gland	M25x1.5mm, cable OD 8-16mm, IP68, Black Polyamide (PA)
H-mod connector IP rating	IP68
H-mod connector size	Max 105x57x39mm (including cable gland)
H-mod connector weight	187g (including LC connectors)
Assembly weight	1kg (10m cable)

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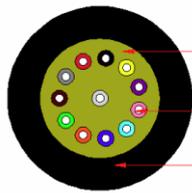
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# Product specification

## 12 core H-Mod Male to LC Horizontal fibre trunk cable

### Fibre Optic cable Specification



Aramid yarn

900u&G657A1 12fiber

outer jacket LSZH Black

#### Cable Technical Parameters

Fibre Count	12
Optical fibre dimension	245±5µm
Optical fibre colour	Blue, Orange, Green, Brown, Gray/Slate, White Red, Black, Yellow, Violet, Rose/Pink, Aqua
Tight buffer dimension	0.9 ± 0.05 mm
Jacket dimension	8.5±0.30 mm
Jacket material and colour	LSZH, Black
Strength Member	Aramid yarn

#### Mechanical and Environmental Characteristics

Tension (Long Term)	200N
Tension (Short Term)	500N
Crush (Long Term)	200 N/10cm
Crush (Short Term)	1000 N/10cm
Min. Bend Radius (Dynamic)	20D mm
Min. Bend Radius (Static)	10D mm
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

#### Fibre Transmission Characteristics: Corning G657A1

#### Geometrical characteristics

Cladding diameter	125.0±0.7µm
Cladding non-circularity	≤0.7%
Coating diameter	245±5 µm
Coating/cladding concentricity error	≤12.0 µm
Coating in roundness	≤6.0 %
Core/envelope concentricity error	≤0.5 µm
Curl	≥4.0 m

#### Optical characteristics

Attenuation	1310nm	≤0.35 dB/km
	1383nm	≤0.35 dB/km
	1490nm	≤0.23 dB/km
	1550nm	≤0.21 dB/km
	1625nm	≤0.23 dB/km
Attenuation vs. Wavelength max. A difference	1285~1330nm	≤0.03 MHz*km
	1525~1575nm	≤0.02 MHz*km

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# Product specification

## 12 core H-Mod Male to LC Horizontal fibre trunk cable

Dispersion coefficient	1550nm	≤18 ps/(nm*km)
	1625nm	≤22 ps/(nm*km)
Zero dispersion wavelength	1304~1324nm	
Zero dispersion slope	≤0.092 ps/(nm <sup>2</sup> *km)	
PMD maximum individual fibre	≤0.2 ps/km <sup>1/2</sup>	
PMD design link value	≤0.04 ps/km <sup>1/2</sup>	
Cable cut off wavelength	≤1260nm	
Mode field diameter	1310nm	8.4~9.2μm
	1550nm	9.3~10.3 μm
Group index of refraction	1310nm	1.466
	1550nm	1.467
<b>Environmental characteristics</b>		
Temperature cycling	-60°C to +85°C	≤0.05dB/km
Temperature-humidity cycling	-10°C to +85°C; 4% to 98% RH	≤0.05dB/km
Water immersion	23°C, 30days	≤0.05dB/km
Dry heat	85°C, 30days	≤0.05dB/km
Damp heat	85°C, 85%RH, 30days	≤0.05dB/km
<b>Mechanical specification</b>		
Proof test	≥100 kpsi	
Macro bending induced loss		
10Turns @30mm Radiu	1550nm	≤0.25 dB
10Turns @30mm Radiu	1625nm	≤1.0 dB
1Turns @20mm Radius	1550nm	≤0.75 dB
1Turns @20mm Radius	1625nm	≤1.5 dB
Stripping force	1.7N representative average ≥1.3, ≤18.9N peak value	
Dynamic stress corrosion susceptibility parameter	20	

The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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