



Product specification

SM 24 core MPO to 12 x DLC fibre trunk cable



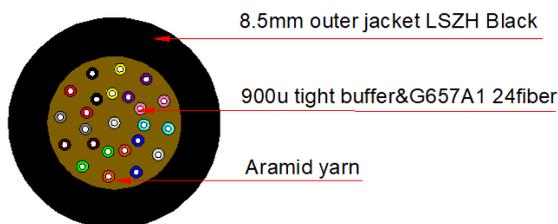
Description

Outdoor 24 core MPO to 12 x DLC 8.5mm G657A1 LSZH Black breakout cable

General Specification

Insertion Loss	Typical $\leq 0.3\text{dB}$ λ : 1310&1550nm * Insertion loss is measured according to the IEC 61300-3-34 [20] method 1
Return Loss	Typical $\geq 50\text{dB}$ λ : 1310&1550nm * Return loss is measured according to the IEC 61300-3-6 [17]
Durability	500 matings
Operating Temperature	-40°C to +85°C
Compliance	CE; RoHS V2 directive 2011/65/EU; WEEE directive 2002/96/EC; REACH;
Connectors	24 core MPO 12 x DLC
IP Rating	IP67
Hood type	ODVA
Hood material	Polyester, UL94-V0, UV Resistant
Hood sealing	Silicone
Lock mechanism	Bayonet socket connector

Fibre Optic cable Specification



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Cable Technical Parameters		
Fibre Count	24	
Optical fibre dimension	245±5µm	
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	
Armouring	Stainless steel tube	
Mechanical and Environmental Characteristics		
Tension (Long Term)	240N	
Tension (Short Term)	720N	
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	
End-Face Geometry		
ROC	ROC-X: 2000mm minimum ROC-Y: 50mm minimum	
Angle	Angle-X: -0.2° to 0.2° Angle-Y: PC: -0.2° to 0.2°; APC: 7.85° to 8.15°	
Fibre height	1000nm to 3500nm	
Max DH.AI:	±300nm	
DH. Adj	±300nm	
DH. Ave Fiber	±300nm	
Core dip	N/A	
Ferrule height	7.9 to 8.05mm	
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

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Attenuation vs. Wavelength max. A difference	1285~1330nm	≤0.03 MHz*km
	1525~1575nm	≤0.02 MHz*km
Dispersion coefficient	1550nm	≤18 ps/(nm*km)
	1625nm	≤22 ps/(nm*km)
Zero dispersion wavelength	1304~1324nm	
Zero dispersion slope	≤0.092 ps/(nm ² *km)	
PMD maximum individual fibre	≤0.2 ps/km ^{1/2}	
PMD design link value	≤0.04 ps/km ^{1/2}	
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
Environmental characteristics		
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
Mechanical specification		
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	

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