



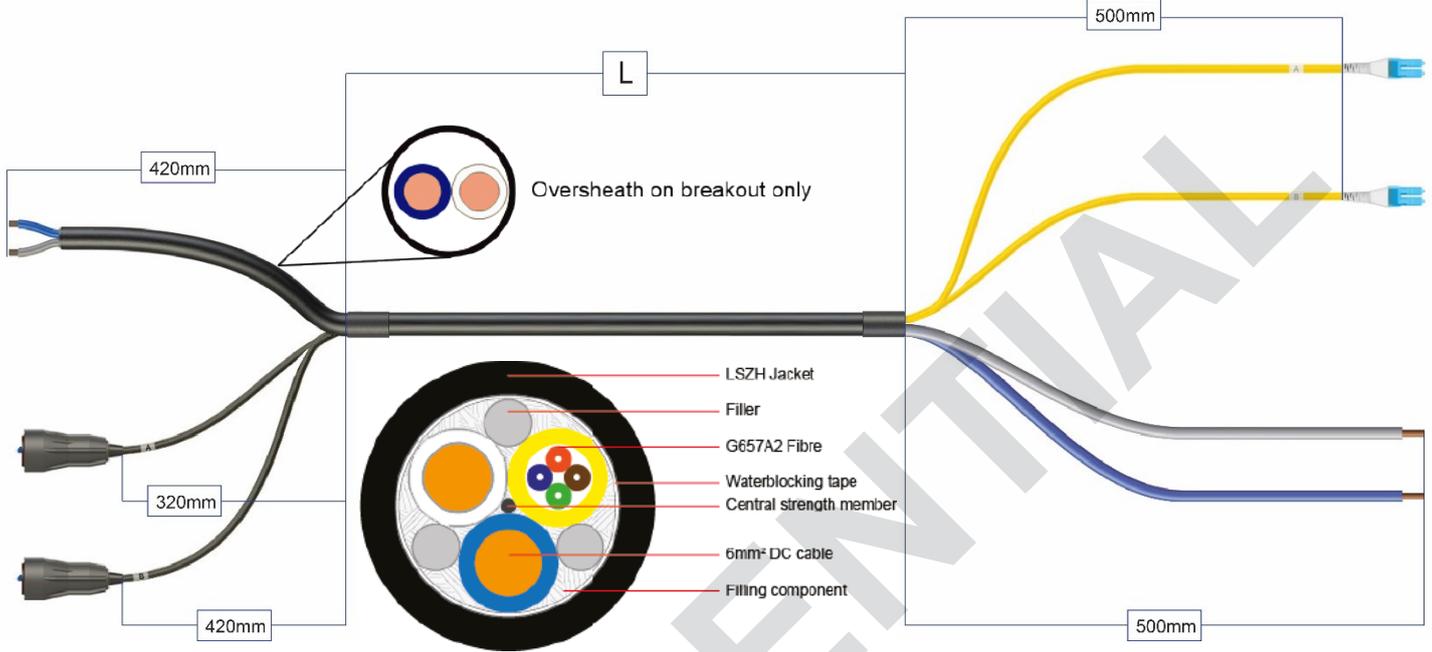
Product specification

Hybrid jumper 2 x FullAXS SM + 2 x 6mm

25-0HH52422003/XX/TP

End 1

End 2



Description

Hybrid jumper with 2 pairs (4 cores) SM with FullAXS boots + 2 x 6mm² DC

Specification

		Cable assembly
Connectors		End 1: FullAXS LC; Bared copper End 2: LC Uniboot; Bared copper
Fibre type		4 core G657A2
Insertion loss		<0.5dB
Return loss		>50dB
Jacket material		LSZH; UV Resistant; External Grade; Black
Jacket Thickness		1.4mm
Cable OD		13.7 ± 0.3mm
Operating temperature		-60°C to +85°C
Storage temperature		-60°C to +85°C
Installation temperature		-60°C to +85°C
Breakout Length		End 1: Fibre subunits: 420mm, 320mm; DC subunit: 420mm End 2: Fibre subunits: 2 x 500mm; DC subunit: 2 x 500mm
Breakout Diameter		End 1: 19.1mm +/- 1mm End 2: 15.8mm +/- 1mm
Breakout Tolerance		+30/-0 mm
Max. Tension	Short term	1500N
	Long term	600N

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Max Crushing Resistance	Short term	3000N/100mm
	Long term	1000N/100mm
Central strength member material	FRP	
Central strength member OD	1.0mm	
Filling component	6000D PP	
Filler	PE	
Filler OD	2.3±0.1mm	
Bending Radius	Short term	280mm
	Long term	140mm
6mm² power cable		
Insulation Material	PVC	
Insulation Diameter	Φ5.0±0.1mm	
Insulation Thickness	0.9±0.1mm	
Colour	Blue / White	
Cable Cross Section (mm ²)	6	
Stranding	116*0.25mm	
Rated voltage	0.6/1.0KV	
Conductor DC Resistance	3.3Ω/km	
Breakout Jacket	End 1: LSZH; UV Resistant; External Grade; Black; 12mm OD	
DC Rating	42A under environment temperature of 40°C	
FullAXS connectors		
LC connector Hood type	2 x FullAXS	
FullAXS Inner body	PA66, UL 94 V-0, Black, UV Resistant	
FullAXS Wave spring	Stainless Steel	
FullAXS O-ring	EPDM Rubber (silicone coated), Black or Red	
FullAXS Bayonet Shell	PP, UL 94 V-0, Black, UV Resistant	
Overmould	PPS, Black	
Overmould O-ring	EPDM Rubber (silicone coated), Black or Red	
Duplex LC connectors (Uniboot)		
Number of cores	2 cores per connector	
Dustcover	TPV, UL 94-V-0, white	
Ferrule Sub Assembly	Zirconia/Metal	
Compression Spring	Aluminium 5053	
Housing	PEI, blue	
Inner Tubing	PTFE, Clear, UL VW-1	
Rear Body	PEI, blue	
Heat Shrink Tubing	PE, Flame Retardant	
Limiting Bending Boot	PE, white	
Fibre Cable Technical Parameters		
Fibre unit jacket	LSZH	
Tight buffer dimension	0.9 ± 0.05 mm	
Strength Member	Aramid yarn	
Breakout Jacket	End 1: LSZH; UV Resistant; External Grade; Armoured; Black; Ø4.8mm End 2: LSZH tube; Yellow; Ø3.3mm	

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Fibre Transmission Characteristics: G657A2		
Geometrical characteristics		
Cladding diameter	125.0±0.7µm	
Cladding non-circularity	≤1%	
Coating diameter	245±5 µm	
Coating/cladding concentricity error	≤12.5 µm	
Coating in roundness	≤6.0 %	
Core/envelope concentricity error	≤0.5 µm	
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
Dispersion coefficient	1550nm	≤18 ps/(nm*km)
	1285~1330nm	≤3.5 ps/(nm*km)
Zero dispersion wavelength	1300~1324nm	
Zero dispersion slope	≤0.092 ps/(nm ² *km)	
PMD maximum individual fibre	≤0.1 ps/km ^{1/2}	
PMD design link value	≤0.06 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	850nm,1300nm 100turns, 75mm diameter ≤0.5dB	
General		
Cable Length	1m, 2m... any length optional	
Cable Length Tolerance	+/- 10cm	
Pair Identification	1; 2	
Label info	HUGHES Part Number Product description Batch	
Fibre deployment application	Suitable for Outdoor, Indoor, External Ducting	
Recommended Hanger	Hughes 27-CL4S101/0DS1 – ONECLAMP DS1 6-16mm	



The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general information purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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