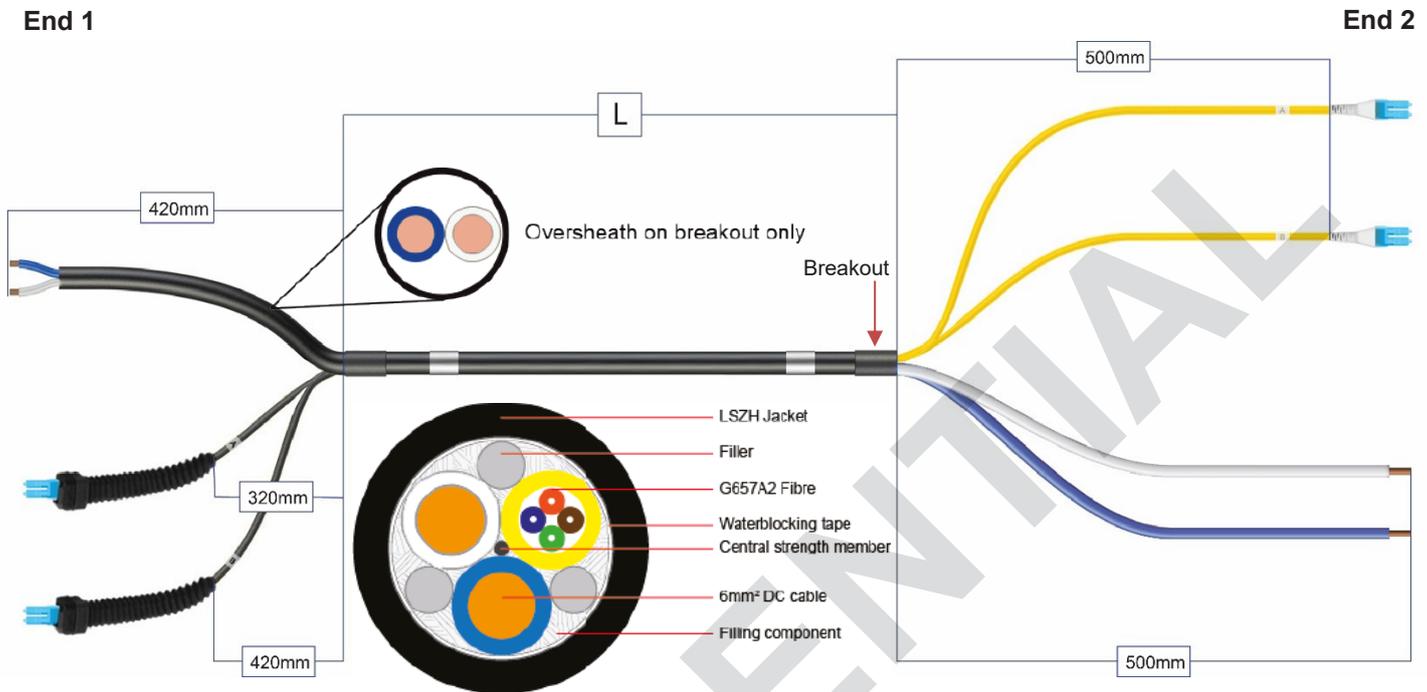




# Product specification

## Hybrid jumper 2 x Nokia Flexi SM + 2 x 6mm

25-0HH52322003/XX/TP



### Description

Hybrid jumper with 2 pairs (4 cores) SM with Nokia boots + 2 x 6mm<sup>2</sup> DC

### Specification

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

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# Product specification

## Hybrid jumper 2 x Nokia Flexi SM + 2 x 6mm

### 25-0HH52322003/XX/TP

<b>Max Crushing Resistance</b>	<b>Short term</b>	3000N/100mm
	<b>Long term</b>	1000N/100mm
<b>Central strength member material</b>		FRP
<b>Central strength member OD</b>		1.0mm
<b>Filling component</b>		6000D PP
<b>Filler</b>		PE
<b>Filler OD</b>		2.3±0.1mm
<b>Bending Radius</b>	<b>Short term</b>	280mm
	<b>Long term</b>	140mm
<b>6mm<sup>2</sup> power cable</b>		
<b>Insulation Material</b>		PVC
<b>Insulation Diameter</b>		Φ5.0±0.1mm
<b>Insulation Thickness</b>		0.9±0.1mm
<b>Colour</b>		Blue / White
<b>Cable Cross Section (mm<sup>2</sup>)</b>		6
<b>Stranding</b>		116*0.25mm
<b>Rated voltage</b>		0.6/1.0KV
<b>Conductor DC Resistance</b>		3.3Ω/km
<b>Breakout Jacket</b>		End 1: LSZH; UV Resistant; External Grade; Black 12mm OD
<b>DC Rating</b>		42A under environment temperature of 40°C
<b>Duplex LC connectors (Uniboot)</b>		
<b>Number of cores</b>		2 cores per connector
<b>Dustcover</b>		TPV, UL 94-V-0, white
<b>Ferrule Sub Assembly</b>		Zirconia/Metal
<b>Compression Spring</b>		Aluminium 5053
<b>Housing</b>		PEI, blue
<b>Inner Tubing</b>		PTFE, Clear, UL VW-1
<b>Rear Body</b>		PEI, blue
<b>Heat Shrink Tubing</b>		PE, Flame Retardant
<b>Limiting Bending Boot</b>		PE, white
<b>Fibre Cable Technical Parameters</b>		
<b>Fibre unit jacket</b>		LSZH
<b>Tight buffer dimension</b>		0.9 ± 0.05 mm
<b>Strength Member</b>		Aramid yarn
<b>Breakout Jacket</b>		End 1: LSZH; UV Resistant; External Grade; Armoured; Black, Ø4.8mm End 2: LSZH tube; Yellow; Ø3.3mm
<b>Fibre Transmission Characteristics: G657A2</b>		
<b>Geometrical characteristics</b>		
<b>Cladding diameter</b>		125.0±0.7µm
<b>Cladding non-circularity</b>		≤1%
<b>Coating diameter</b>		245±5 µm
<b>Coating/cladding concentricity error</b>		≤12.5 µm
<b>Coating in roundness</b>		≤6.0 %
<b>Core/envelope concentricity error</b>		≤0.5 µm

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# Product specification

## Hybrid jumper 2 x Nokia Flexi SM + 2 x 6mm

### 25-0HH52322003/XX/TP

Optical characteristics		
<b>Attenuation</b>	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
<b>Attenuation vs. Wavelength max. A difference</b>	1285~1330nm	≤0.03 MHz*km
	1525~1575nm	≤0.02 MHz*km
<b>Dispersion coefficient</b>	1550nm	≤18 ps/(nm*km)
	1285~1330nm	≤3.5 ps/(nm*km)
<b>Zero dispersion wavelength</b>	1300~1324nm	
<b>Zero dispersion slope</b>	≤0.092 ps/(nm <sup>2</sup> *km)	
<b>PMD maximum individual fibre</b>	≤0.1 ps/km <sup>1/2</sup>	
<b>PMD design link value</b>	≤0.06 ps/km <sup>1/2</sup>	
<b>Cable cut off wavelength</b>	≤1260nm	
<b>Mode field diameter</b>	1310nm	8.4~9.2μm
	1550nm	9.3~10.3 μm
<b>Group index of refraction</b>	1310nm	1.466
	1550nm	1.467
Environmental characteristics		
<b>Temperature cycling</b>	-60°C to +85°C	≤0.05dB/km
<b>Temperature-humidity cycling</b>	-10°C to +85°C; 4% to 98% RH	≤0.05dB/km
<b>Water immersion</b>	23°C, 30days	≤0.05dB/km
<b>Dry heat</b>	85°C, 30days	≤0.05dB/km
<b>Damp heat</b>	85°C, 85%RH, 30days	≤0.05dB/km
Mechanical specification		
<b>Proof test</b>	≥100 kpsi	
Macro bending induced loss		
<b>10 Turns @15mm Radius</b>	1550nm	≤0.03 dB
<b>10 Turns @15mm Radius</b>	1625nm	≤0.1 dB
<b>1 Turn @10mm Radius</b>	1550nm	≤0.1 dB
<b>1 Turn @10mm Radius</b>	1625nm	≤0.2 dB
<b>1 Turn @7.5mm Radius</b>	1550nm	≤0.2 dB
<b>1 Turn @7.5mm Radius</b>	1625nm	≤0.5 dB
<b>Stripping force</b>	1.7N representative average; ≥1.3, ≤8.9N peak value	
General		
<b>Cable Length</b>	1m, 2m... any length optional	
<b>Cable Length Tolerance</b>	+/- 10cm	
<b>Pair Identification</b>	1; 2	
<b>Label info</b>	HUGHES Part Number Product description Batch	
<b>Fibre deployment application</b>	Suitable for Outdoor, Indoor, External Ducting	
<b>Recommended Hanger</b>	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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