

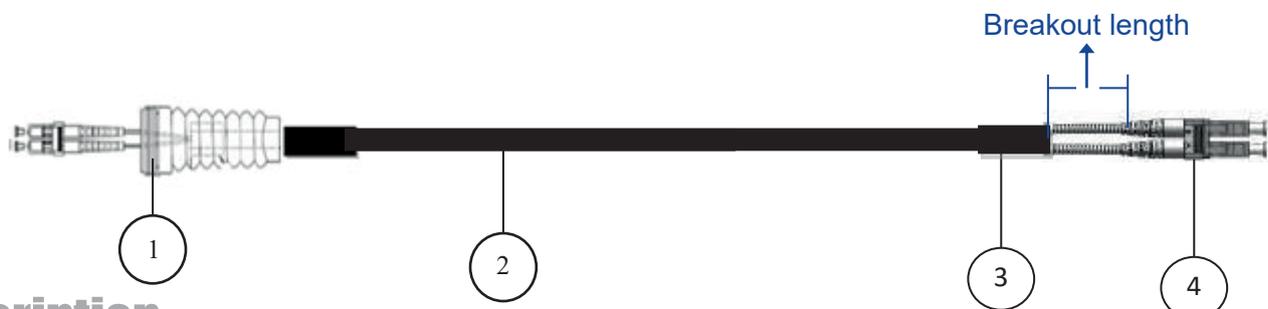


Product specification

NSN Flexi DLC - DLC Optical Cable

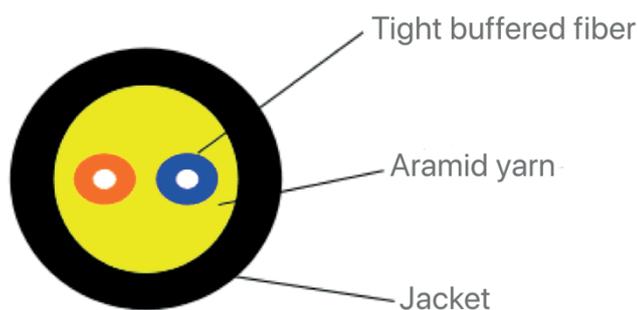
SM: 25-OHE7715520/xx

MM: 25-OHE7714520/xx



Description

No.	Description
1	Connector/ NSN (Nokia)
2	Optical cable, duplex, 5.0mm, LSZH black jacket
3	Fan-out
4	Connector/ DLC



Specification

Singlemode 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

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Product specification

NSN Flexi DLC - DLC Optical Cable

SM: 25-OHE7715520/xx

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Multimode Fibre Transmission Characteristics: OM4		
Number of fibres	2 cores, multimode OM4	
Tight buffer fibre	850± 50 µm	
Cable jacket	LSZH	
Attenuation	850 nm ≤2.3dB/km 1300 nm ≤0.6dB/km	
Bandwidth	50/125um 850 nm ≥3500 MHz·km 1300 nm ≥500 MHz·km	
Cladding diameter	125±1.0 µm	
Cladding non-circularity	≤1.0%	
Coating/cladding concentricity error	≤12.5 µm	
Coating diameter	245±10 µm	
Connectors		
Connector type	LC/UPC, SC/UPC, FC/UPC, ST/UPC (Nokia Boot)	
Insertion Loss	Singlemode ≤0.3db	Multimode ≤0.3db
Return Loss	Singlemode ≥50db	Multimode ≥60db
Repeatability	≤0.1	
Interchangeability	≤0.2dB	
Durability	≤0.2dB	
Fiber Length	1m, 2m..... any length optional.	
Length and tolerance	10cm	
Operating Temperature	-40C ~ +85C	
Storage Temperature	-40C ~ +85C	
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
Proof test	≥100 kpsi	
Macro bending induced loss		
10 Turns @15mm Radius	1550nm	≤0.03 dB
10 Turns @15mm Radius	1625nm	≤0.1 dB
1 Turn @10mm Radius	1550nm	≤0.1 dB
1 Turn @10mm Radius	1625nm	≤0.2 dB
1 Turn @7.5mm Radius	1550nm	≤0.2 dB
1 Turn @7.5mm Radius	1625nm	≤0.5 dB
Stripping force	1.7N representative average; ≥1.3, ≤8.9N peak value	
General		
Cable Length	1m, 2m... any length optional	
Length Tolerance	10cm	
Pair Identification	Numeric 1-2	
Fibre deployment application	Suitable for Outdoor, Indoor, External Ducting	

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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