

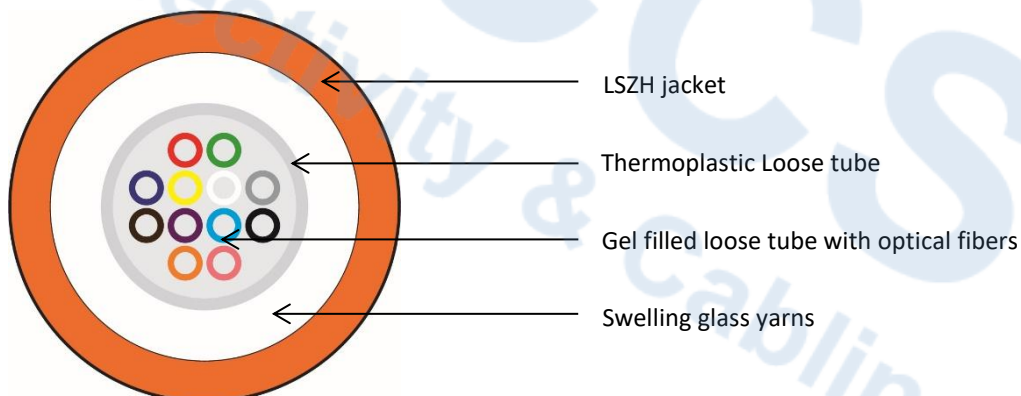
Cable type	U-DQ(BN)HH
Description	Central loose tube cable to be pre-terminated, 4-24 OF, dielectric armour, LSZH jacket, Eca,



*the color of the jacket in the picture is indicative

Cable type U-DQ(BN)H to be pre-terminated

4 to 24 cores central Loose tube optical cable to be pre-terminated, type U-DQ(BN)H for indoor and outdoor use, longitudinally resistant to water penetration, dielectric protection against the action of rodents, external sheath in LSZH (Low Smoke Zero Halogen), Euroclass Eca. The optical fibers, with primary coating of 250µm, are contained within a single thermoplastic tube and filled with a water-blocking gel to prevent moisture penetration.



Constructive characteristics

Tube	Gel-filled Loose tube
Filler protection	Swelling glass yarns
Optical fiber type	Single-mode 9/125; multimode 50/125
Outer jacket material	LSZH (Low Smoke Zero Halogen)
Armour	Dielectric
Cable outer diameter	from 5,4 to 7 mm
Nominal weight	from 35 to 70 Kg/Km

Mechanical and environmental properties

Use	Indoor/Outdoor
Bend. radius (installation)	20 x outer diameter
Bend. radius (long term)	10 x outer diameter
Max. pull strength	from 1000 N (100 kg max.)
Crush resistance	From 1500 N/dm
Installation temperature	from -5°C to +40°C
Operating temperature	from -20°C to +60°C

Cable type	U-DQ(BN)HH
Description	Central loose tube cable to be pre-terminated, 4-24 OF, dielectric armour, LSZH jacket, Eca,

Reference standards

Cables and optical fibers	EN 60793
	EN 60794-1
Structured cabling	EN 50173-1
	ISO/IEC 11801
	ANSI/TIA 568.3-D

Fire behavior

CRP regulation	EN 50575 Euroclass Eca
Fire reaction	EN 60332-1-2
Smoke density	EN 61034-2
Acid gas emission	EN 60754-1/2

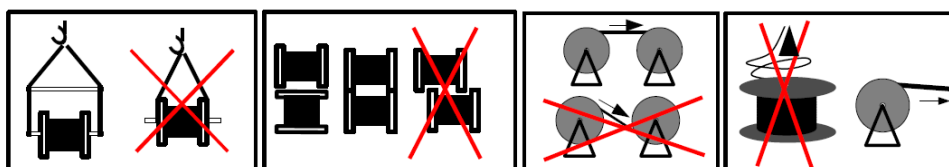
Outer jacket color

9/125 OS2	Yellow
50/125 OM2	Orange
50/125 OM3	Aqua
50/125 OM4	Erika Violet

Reference codes

Cores number	9/125 OS2	50/125 OM2	50/125 OM3	50/125 OM4
1x4 cores	2008345	2008355	2008355OM3	2008355OM4
1x8 cores	2008347	2008357	2008357OM3	2008357OM4
1x12 cores	2008348	-	2008358OM3	2008358OM4
1x24 cores	2008349	-	2008359OM3	2008359OM4

Recommendations of use



Cable type	U-DQ(BN)HH
Description	Central loose tube cable to be pre-terminated, 4-24 OF, dielectric armour, LSZH jacket, Eca,

MULTIMODE OPTICAL FIBER SPECIFICATIONS

Optical fiber type	50/125 OM2	50/125 OM3	50/125 OM4	62,5/125 OM1
Core diameter	50 ± 2,5 µm	50 ± 2,5 µm	50 ± 2,5 µm	62,550 ± 2,5 µm
Cladding diameter	125 ± 1 µm	125 ± 1 µm	125 ± 1 µm	125 ± 1 µm
Primary coating diameter	242 ± 5 µm	242 ± 5 µm	242 ± 5 µm	242 ± 5 µm
Cladding Non-Circularity	≤ 0,7%	≤ 0,7%	≤ 0,7%	≤ 0,7%
Core Non-Circularity	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Concentricity error core/cladding	≤ 1 µm	≤ 1 µm	≤ 1 µm	≤ 1 µm
Concentricity error cladding/coating	≤ 10 µm	≤ 10 µm	≤ 10 µm	≤ 10 µm
Atten. typical/max λ=850 nm	2,0 – 3,5 dB/Km	2,0 – 3,5 dB/Km	2,0 – 3,5 dB/Km	2,6 – 3,5 dB/Km
Atten. typical/max λ=1300 nm	0,5 – 1,5 dB/Km	0,5 – 1,5 dB/Km	0,5 – 1,5 dB/Km	0,5 – 1,5 dB/Km
Bandwidth λ=850 nm	500 MHz·Km	1500 MHz·Km	3500 MHz·Km	220 MHz·Km
Bandwidth λ=1300 nm	500 MHz·Km	500 MHz·Km	500 MHz·Km	500 MHz·Km
Group Index @ 850 nm	1,482	1,482	1,482	1,496
Group Index @ 1300 nm	1,477	1,477	1,477	1,491
Numerical aperture	0,200 ± 0,015	0,200 ± 0,015	0,200 ± 0,015	0,275 ± 0,015

SINGLE-MODE OPTICAL FIBER SPECIFICATIONS

Optical fiber type	9/125 OS2 (ITU G.652D)
Core diameter	9,0 ± 0,4 µm @1310 nm 10,1 ± 0,5 µm @ 1550 nm
Cladding diameter	125 ± 0,7 µm
Primary coating diameter	242 ± 7 µm
Cladding Non-Circularity	≤ 0,7%
Concentricity error core/cladding	≤ 0,5 µm
Concentricity error cladding/coating	≤ 12 µm
Attenuation typical/max λ=1310 nm	0,31 – 0,35 dB/Km
Attenuation typical/max λ=1550 nm	0,20 – 0,24 dB/Km
Attenuation typical/max λ=1625 nm	0,21 – 0,26 dB/Km
Group Index @ 1310 nm	1,4676
Group Index @ 1550 nm	1,4682
Chromatic @ 1550 nm	≤ 18 ps/(nm·Km)
Chromatic @ 1625 nm	≤ 22 ps/(nm·Km)
Cable cut-off wavelength	λ _{cc} ≤ 1260 nm
Zero-dispersion wavelength λ _o	1304-1324 nm
Slope at λ _o	S _o ≤ 0,092 ps/(nm ² ·Km)
PMD	≤ 0,1 ps/√Km

Optical fibers are fully compliant with IEC/EN 60793-1, IEC/EN 60793-2, EN 50173 and ISO/IEC

NOTE

What is specified in the data sheet describes the general characteristics of the supplied cables to be pre-terminated in laboratory. These cables could not be branded CCS by Qubix but come from primary manufacturers.

Therefore in some cases the characteristics of the product may partially differ from those reported in this document. The declaration of performance inherent to the CPR regulation can be downloaded directly from the manufacturer's website through the data indicated on the CPR label that accompanies the product itself.