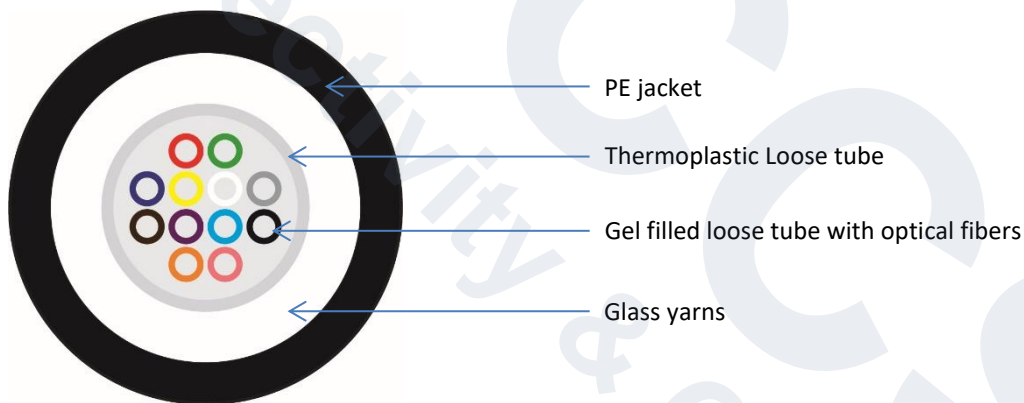


Cable type	<b>A-DQ(BN)2Y</b>
Description	<b>Central loose tube cable, 4-24 OF, dielectric armour, PE jacket, Fca</b>



### A-DQ(BN)2Y

4 to 24 cores central Loose tube optical cable for outdoor use type A-DQ(BN)2Y, longitudinally resistant to water penetration, dielectric protection against the action of rodents, external jacket in PE (polyethylene), Euroclass Fca. The optical fibers, with primary coating of 250µm, are contained within a single thermoplastic tube filled with a water-blocking gel to prevent moisture penetration.



### Constructive characteristics

Tube	Gel-filled Loose tube
Filler protection	Glass yarns
Optical fiber type	Single-mode 9/125; multimode 50/125; multimode 62,5/125
Outer jacket material	PE (polyethylene)
Armour	Dielectric
Cable outer diameter	from 5,4 to 7,2 mm
Nominal weight	from 27 to 65 Kg/Km
Marking	CCS by Qubix - "product code" - FO Cable A-DQ(BN)2Y - "1xn FO" "fiber type" - dielectric armoured - PE jacket- meters - lot - FID - Euroclass Fca - n° DOP

### Mechanical and environmental properties

Use	Outdoor
Bend. radius (installation)	20 x outer diameter
Bend. radius (long term)	15 x outer diameter
Max. pull strength	from 1000 N (100 kg max.)
Crush resistance	2000 N/dm
Installation temperature	from -5°C to +50°C
Operating temperature	from -20°C to +70°C

Cable type	A-DQ(BN)2Y
Description	Central loose tube cable, 4-24 OF, dielectric armour, PE jacket, Fca

**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 Fca
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Optical cables suitable for outdoor installations; these cables are not intended for indoor use (where the use of cables at least in Euroclass Eca or higher is required).

**Outer jacket color**

9/125 OS2	Yellow
50/125 OM2	Black
50/125 OM3	Aqua
50/125 OM4	Erika Violet
62,5/125 OM1	Grey

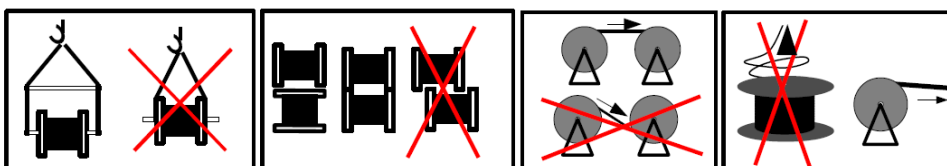
**Packaging**

Drum	2000 or 4000 mt ± 5%
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**Reference codes**

Cores number	9/125 OS2	50/125 OM2	50/125 OM3	50/125 OM4	62,5/125 OM1
1x4 cores	Cod. 2008302	Cod. 2008306	Cod. 2008306OM3	Cod. 2008306OM4	Cod. 2008309
1x6 cores	Cod. 2008314	-	Cod. 2008313OM3	-	-
1x8 cores	Cod. 2008303	Cod. 2008087	Cod. 2008087OM3	Cod. 2008087OM4	Cod. 2008310
1x12 cores	Cod. 2008304	Cod. 2008307	Cod. 2008307OM3	Cod. 2008307OM4	Cod. 2008311
1x24 cores	Cod. 2008305	Cod. 2008308	Cod. 2008308OM3	Cod. 2008308OM4	Cod. 2008312

**Recommendations of use**



Cable type	<b>A-DQ(BN)2Y</b>
Description	<b>Central loose tube cable, 4-24 OF, dielectric armour, PE jacket, Fca</b>

## MULTIMODE OPTICAL FIBER SPECIFICATIONS

<i>Optical fiber type</i>	<i>50/125 OM2</i>	<i>50/125 OM3</i>	<i>50/125 OM4</i>	<i>62,5/125 OM1</i>
Core diameter	50 ± 2,5 µm	50 ± 2,5 µm	50 ± 2,5 µm	62,5 ± 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

<i>Optical fiber type</i>	<i>9/125 OS2 (ITU G.652D)</i>
Core diameter	9,0 ± 0,4 µm @1310 nm 10,1 ± 0,5 µm @ 1550 nm
Cladding diameter	125 ± 0,10 µm
Primary coating diameter	245 ± 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	≤ 0,36 dB/Km
Attenuation typical/max λ=1550 nm	≤ 0,23 dB/Km
Attenuation typical/max λ=1625 nm	≤ 0,27 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 <sub>cc</sub> ≤ 1260 nm
Zero-dispersion wavelength λ <sub>o</sub>	1302-1322 nm
Slope at λ <sub>o</sub>	S <sub>o</sub> ≤ 0,092 ps/(nm <sup>2</sup> ·Km)
PMD	≤ 0,2 ps/√Km

**Optical fibers are fully compliant with IEC/EN 60793-1, IEC/EN 60793-2, EN 50173 and ISO/IEC 11801**