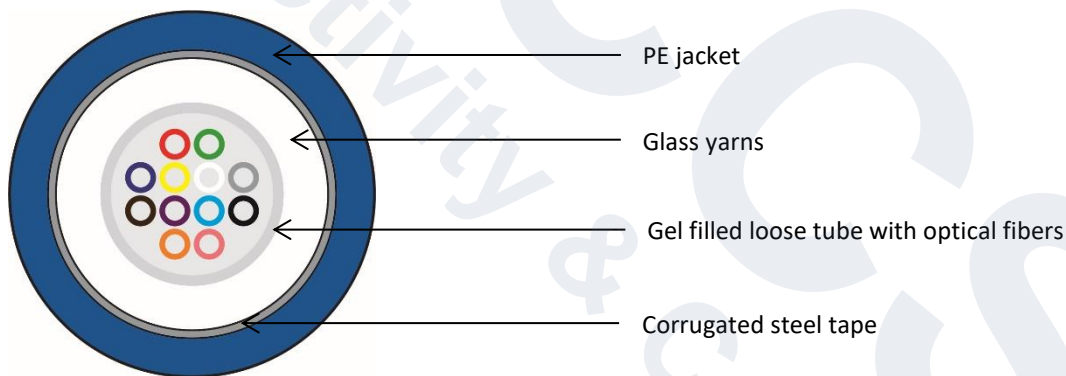


Cable type	<b>A-DQ(BN)(SR)2Y</b>
Description	<b>Central loose tube cable, 4-24 OF, metallic armour, PE jacket, Fca</b>



### A-DQ(bN)(SR)2Y

4 to 24 cores central loose tube optical cable for external use type A-DQ(BN)(SR)2Y, resistant longitudinally and transversally to the penetration of water, metallic armour with a corrugated steel tape that gives protection against the action of rodents and mechanical stresses, external jacket in PE (polyethylene), Euroclass Fca. The optical fibres, with primary coating of 250µm, are contained inside a single thermoplastic tube filled with a water-blocking gel to prevent moisture penetration.



### Constructive characteristics

Tube	Gel-filled Loose tube
Filler protection	Glass yarn
Optical fiber type	Single-mode 9/125; multimode 50/125; multimode 62,5/125
Outer jacket material/color	PE (polyethylene)/blue
Armour	Corrugated steel tape
Cable outer diameter	from 7,7 to 9,6 mm
Nominal weight	from 70 to 115 Kg/Km
Marking	CCS by Qubix - "product code" - FO Cable A-DQ(BN)(SR)2Y - "1xn FO" - "fiber type" - corrugated steel tape armoured - PE jacket - meters - lotto - 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	from 2000 N/dm
Installation temperature	from -5°C to +50°C
Operating temperature	from -20°C to +70°C

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

**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**

CPR 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).

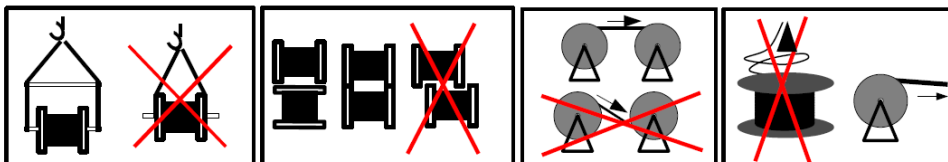
**Packaging**

Drum	2000 o 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	Cod. 2008321	Cod. 2008326	Cod. 2008326OM3	Cod. 2008326OM4	Cod. 2008330
1x6	-	Cod. 2008327	Cod. 2008327OM3	Cod. 2008327OM4	-
1x8	Cod. 2008323	Cod. 2008088	Cod. 2008088OM3	Cod. 2008088OM4	Cod. 2008332
1x12	Cod. 2008324	Cod. 2008328	Cod. 2008328OM3	Cod. 2008328OM4	Cod. 2008333
1x24	Cod. 2008325	Cod. 2008329	Cod. 2008329OM3	Cod. 2008329OM4	Cod. 2008334

**Recommendations of use**



Cable type	<b>A-DQ(BN)(SR)2Y</b>
Description	<b>Central loose tube cable, 4-24 OF, metallic 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	62,550 ± 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

<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 ± 0,7 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 <sub>cc</sub> ≤ 1260 nm
Zero-dispersion wavelength λ <sub>o</sub>	1304-1324 nm
Slope at λ <sub>o</sub>	S <sub>o</sub> ≤ 0,092 ps/(nm <sup>2</sup> ·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 11801**