

PRODUCTPROFILE

Catalogue number: 010A0016G657A1

Partnumber: 767001

Cable A-DQ(ZN)B2Y24E9/125µm

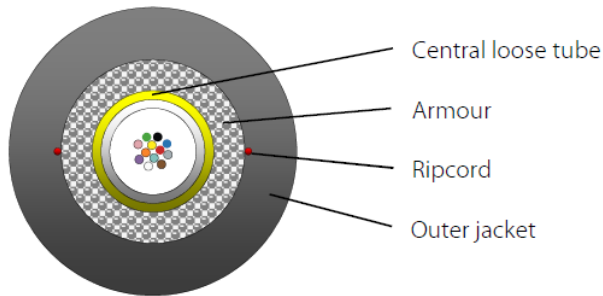
A-DQ(ZN)B2Y24E9/125µm
schwarz, 2500N



Related documents:

DS_A-DQZNB2YN2500-PVP_L_OE
DS_FASER G657A1_OE

Cable Data Sheet
Fiber Data Sheet



PVP only with singlemode fibers

Standards

- IEC 60794-3

Structure

Loose tube:

- Jelly filled 2 layers loose tube: 2 to 12 optical fibers diameter 3.5 mm, 14 to 24 optical fibers diameter 4.0 mm
- Fiber color code 1 to 12: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
- Fiber color code 13 to 24: red, green, blue, yellow, white, grey, brown, violet, turquoise, transparent, orange, pink, all with black ring-marking

Armor:

- Multifunctional reinforced E-glass yarns as strain relief elements and non-metallic rodent protection

Outer jacket:

- Polyethylen PE
- Standard jacket color black
- Wall thickness 1.5 mm
- Inkjet marking white acc. to separate drawing

Geometrical properties

| Number of fibers | Outer diameter [mm] | Weight [kg/km] |
|------------------|---------------------|----------------|
| 12 | 8.3 | 60 |
| 24 | 8.8 | 70 |

Fiber Optic Cable

A-DQ(ZN)B2Y n ... 2500N GHMT PVP certified

010AXXXX

Mechanical properties

- Min. bending radius fixed (static) acc. IEC 60794-1-2 E11A
15 x outside diameter
- Min. bending radius during installation (dynamic) with additional tensile strain acc. IEC 60794-1-2 E6
20 x outside diameter
- Max. tensile force acc. IEC 60794-1-2 E1 = 2500 N
- Max. crush resistance acc. IEC 60794-1-2 E3 long term = 1500 N/dm, short term = 3000 N/dm
- Longitudinally watertight acc. IEC 60794-1-2 F5A: l=3m, t=24h

Thermal properties

- Transport and storage - 40°C to + 75°C
- Installation - 5°C to + 50°C
- In use acc. IEC 60794-1-2 F1 - 40°C to + 75°C

Chemical properties

- UV resistance
- Good resistance to oil, petrol, acid, leach and water

Fire performance

- Halogen-free acc. to IEC 60754-1
- Acidity of the combustion gases acc. to IEC 60754-2

Transmission characteristics

See fiber data sheets

Applications

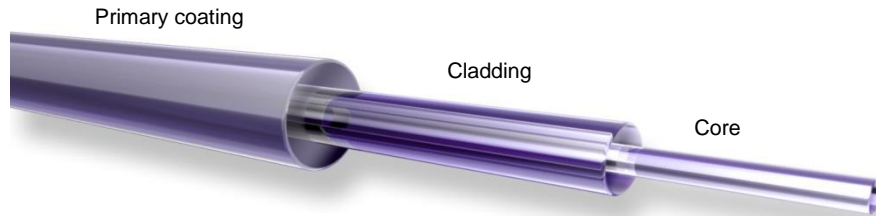
- Longitudinally and transversely waterproof fibre optic outdoor cable with non-metallic rodent protection and higher tensile force
- For fixed installation outdoors, in cable ducts, tubes and also suitable for interconnections
- Suitable for underground laying (direct buried)
- Mechanical installation is only permitted when using force measuring devices with recording function

Deliveryform

On one-way drums

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|-------------|------------|----------|------------|------|---------------------------|-------------|------------|
| H. Jungbäck | 2017-07-24 | P. Maier | 2017-07-24 | 003 | without | H. Jungbäck | 2017-11-24 |



Standards

Stepped index fiber 9/125µm according to
 -ISO/IEC 11801 und EN 50173-1 OS2
 -IEC 60793-2-50 type B1.3
 -ITU G.657.A1 und G.652.D

Structure

Silica fiber with two layer acrylate primary coating

Geometrical properties

| | |
|--------------------------------|--------------------|
| Modefield diameter @1310 nm | 9.2 µm +/- 0.4 µm |
| Modefield diameter @1550 nm | 10.4 µm +/- 0.5 µm |
| Cladding diameter | 125 µm +/- 0.07 µm |
| Cladding non-circularity | ≤ 0.7 % |
| Core-Cladding concentricity | ≤ 0.5 µm |
| Primary coating diameter | 242 µm +/- 5 µm |
| Coating-Cladding concentricity | < 12 µm |

Mechanical properties

Break strength SCREEN-Test 1 % strain for 1 s @100 kpsi

Thermal properties

Operating temperature range -60 to +85°C

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Transmission characteristics

Attenuation:

Cabled fiber tight buffered: @ 1310 nm max. 0.38 dB/km
@ 1550 nm max. 0.28 dB/km

Cabled fiber loose tube: @ 1310 nm max. 0.36 dB/km
@ 1550 nm max. 0.22 dB/km

Uncabled fiber: @ 1310 nm max. 0.32 dB/km
@ 1383 nm max. 0.32 dB/km
@ 1490 nm max. 0.21 dB/km
@ 1550 nm max. 0.18 dB/km
@ 1625 nm max. 0.20 dB/km

Macrobending, induced attenuation, uncabled fiber:

Radius 10 mm, 1 turn, @ 1550 nm ≤ 0.50 dB
Radius 10 mm, 1 turn, @ 1625 nm ≤ 1.50 dB
Radius 15 mm, 10 turns, @ 1550 nm . 0.05 dB
Radius 15 mm, 10 turns, @ 1625 nm ≤ 0.30 dB
Radius 25 mm, 100 turns, @ 1310, 1550 und 1625 nm ≤ 0.01 dB

Dispersion:

@ 1285 - 1330 nm ≤ 3.0 ps/(nm*km)
@ 1550 nm ≤ 18.0 ps/(nm*km)
@ 1625 nm ≤ 22.0 ps/(nm*km)

Polarization Mode Dispersion (PMD):

PMD Link Design Value ≤ 0.04 ps/√km
Maximum individual fiber PMD ≤ 0.1 ps/√km

Cut-off-Wavelength: ≤ 1260 nm

Effective group index of refraction:

@ 1310 nm 1.4676
@ 1550 nm 1.4682

Backscatter attenuation @ 1ns pulse width:

@ 1310 nm -77 dB
@ 1550 nm -82 dB
@ 1625 nm -83 dB

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| H. Jungbäck | 12-04-15 | P. Maier | 12-04-15 | 001 | without | H. Jungbäck | 12-04-15 |