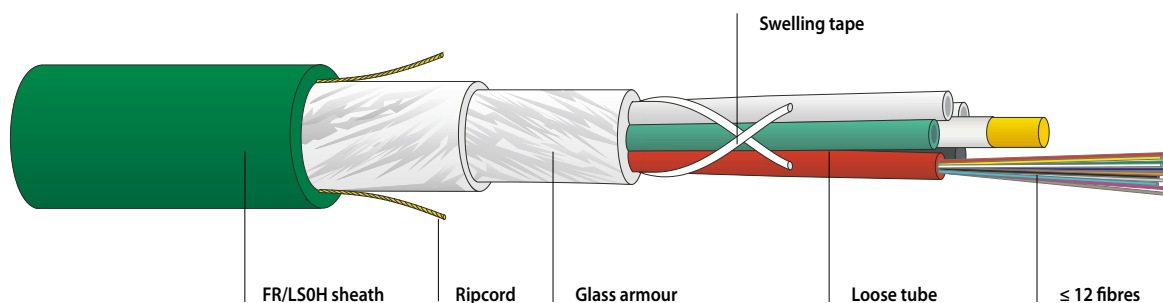


FIBRE OPTIC UNIVERSAL CABLE

FO Universal U-DQ(ZN)BH

for indoor and outdoor use, up to 144 fibres

non metallic, dry interstices,
rodent protection, flame retardant,
in accordance with IEC 60332.1 and IEC 60322.3 C



PRODUCT INFORMATION



FEATURES

Robust, non metallic fibre optic outdoor and indoor cable with stranded loose tubes.
High crush resistance for high transmission reliability.
Easy handling due to cable construction with dry interstices.
Non metallic rodent protection.
The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath.
Flame retardant halogen-free FR/LSOH sheath.

APPLICATION

LAN backbone, access and riser zone.
Connection cable between the building distributors and/or floor distributors.
Suitable for laying in cable trays, ducts and vertical shafts.
Can also be spliced in all FO distributors and joints.

OPTICAL CHARACTERISTICS

The cables are available with different types of optical fibre (see fibre data sheets).

MECHANICAL CHARACTERISTICS

| | | | |
|----------------------|----------------------|-------------|------------------|
| Temperature range | storage: | -25 / +70°C | IEC 60794-1-2 F1 |
| | during installation: | -10 / +50°C | |
| | in operation: | -25 / +60°C | |
| Tensile performance: | IEC 60794-1-2 E1 | | |
| Crush resistance: | IEC 60794-1-2 E3 | | |
| Impact: | IEC 60794-1-2 E4 | | |
| Repeated bending: | IEC 60794-1-2 E6 | | |
| Torsion: | IEC 60794-1-2 E7 | | |
| Bend: | IEC 60794-1-2 E11 | | |
| Water penetration: | IEC 60794-1-2 F5 | | |

GENERAL CHARACTERISTICS

Imprint: DATWYLER «cable type» «Datwyler designation» «DIN designation»
«number of fibres» «fibre type» «additional text» «batch number»
~ ~ «meter marks» ~ ~

- Zero halogen, non corrosive gases IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2
- Flame retardant IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
- Fire resistant (no flame propagation) IEC 60332.3 C, EN 50266-2-4, VDE 0482-266-2-4
- Minimum smoke emission IEC 61034-1/-2, EN 61034-1/-2 (EN 50268-1/-2), VDE 0482-1034-1/-2 (VDE 0482-268-1/-2)

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PRODUCT INFORMATION

| Description | No. of fibres | Loose tube | Sheath Ø | Weight | Bending radius | Tensile load | Crush resistance | | Fire load | |
|----------------------|---------------|------------|----------|--------|----------------|--------------|------------------|--------------|-----------|-------|
| U-DQ(ZN)BH n x m | max. | max. | mm | kg/km | mm | N | continuous N | short term N | kWh/km | MJ/km |
| FO Universal 5 x 12 | 60 | 5 | 11.4 | 148 | 175 | 6000 | 3000 | 5000 | 616 | 2218 |
| FO Universal 6 x 12 | 72 | 6 | 12.2 | 164 | 185 | 6000 | 3000 | 5000 | 681 | 2452 |
| FO Universal 8 x 12 | 96 | 8 | 13.5 | 198 | 205 | 6000 | 3000 | 5000 | 808 | 3200 |
| FO Universal 10 x 12 | 120 | 10 | 14.8 | 230 | 225 | 6000 | 3000 | 5000 | 936 | 3369 |
| FO Universal 12 x 12 | 144 | 12 | 16.3 | 272 | 245 | 6000 | 3000 | 5000 | 1075 | 3870 |

VERSIONS

| U-DQ(ZN)BH n x m | Fibres | Article No. | Article No. | Article No. | Article No. | Article No. |
|----------------------|--------|----------------|-------------|-------------|-------------|---------------|
| Description | number | E9/125 G.652.D | G50/125 OM2 | G50/125 OM3 | G50/125 OM4 | G62.5/125 OM1 |
| FO Universal 3 x 12 | 36 | 190207 | 186434 | auf Anfrage | 192678 | 186488 |
| FO Universal 4 x 12 | 48 | 190208 | 187291 | 186486 | 191278 | 187292 |
| FO Universal 5 x 12 | 60 | 190209 | 190618 | 186642 | on request | on request |
| FO Universal 6 x 12 | 72 | 190210 | 187344 | 186539 | on request | on request |
| FO Universal 8 x 12 | 96 | 186747 | on request | 186540 | 192714 | on request |
| FO Universal 10 x 12 | 120 | 190211 | on request | 186536 | on request | on request |
| FO Universal 12 x 12 | 144 | 190212 | 186616 | 191710 | 192715 | on request |