

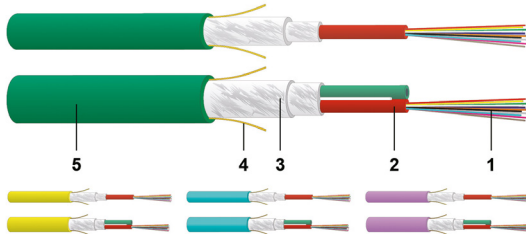
FO Universal ZGGFR / U-DQ(ZN)BH

up to 24 fibres, Euroclass Dca

metal-free, dry interstices,

rodent protection, flame retardant

in accordance with IEC 60332-1-2 and IEC 60332-3-24



1 ≤ 24 fibres

2 Loose tube

3 Glass armour

4 Ripcord

5 FR/LSOH sheath



Description

Robust, non-metallic fibre optic outdoor and indoor cable with one or two central 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.

Applicazione

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.

Costruzione

Outer sheath material FRNC/LSZH

Proprietà generali

| | |
|--------------------------|---|
| Impronta | DATWYLER «cable type» «Datwyler designation» «DIN designation» «no. of fibres» «fibre type» «add. text» «batch no.» «meter marks» |
| Installation temperature | -10 °C - +50 °C |
| Integrità del circuito | No |
| Operating temperature | -25 °C - +70 °C |
| Storage temperature | -25 °C - +70 °C |

Standards

| | |
|---------------------------------|--|
| Tensile performance | IEC 60794-1-21 E1/test criterion 0.33% reversible optical fibre elongation |
| Crush resistance | IEC 60794-1-21 E3 |
| Impact | IEC 60794-1-21 E4 |
| Repeated bending | IEC 60794-1-21 E6 |
| Torsion | IEC 60794-1-21 E7 |
| Bend | IEC 60794-1-21 E11 |
| Water penetration | IEC 60794-1-22 F5 |
| Reaction to fire (Euroclasses) | EN 13501-6: D _{ca} |
| Zero halogen no corrosive gases | IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2 |
| Flame Propagation | EN 60332-1-2, IEC 60332-1-2, VDE 0482-332-1-2 |
| Flame Spread | IEC 60332-3-24, EN 60332-3-24, VDE 0482-332-3-24 |
| Smoke Density | IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 |
| Resistenza ai raggi UV | EN 50289-4-17 |

Versions

| Numero Materiale | Product | Reaction To Fire | Outer sheath colour | Fibre type | Diametro esterno della guaina [mm] | Raggio di curvatura [mm] | Weight [kg\ km] | Tensile load short term [N] | Tensile load continuous [N] | Crush resistance short term [N] | Crush resistance continuous [N] | Fire load [kWh\m] | Packing unit |
|------------------|------------------|------------------|---------------------|--------------------|------------------------------------|--------------------------|-----------------|-----------------------------|-----------------------------|---------------------------------|---------------------------------|-------------------|--------------|
| 19020300DZ | FO Universal 1x4 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 18598900DZ | FO Universal 1x4 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19271200DZ | FO Universal 1x4 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19020400DZ | FO Universal 1x6 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19342100DZ | FO Universal 1x6 | Dca-s2,d1,a1 | giallo | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19011200DZ | FO Universal 1x6 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19342500DZ | FO Universal 1x6 | Dca-s2,d1,a1 | turchese | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19336000DZ | FO Universal 1x6 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19342900DZ | FO Universal 1x6 | Dca-s2,d1,a1 | heather violet | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19020500DZ | FO Universal 1x8 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 18595900DZ | FO Universal 1x8 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 18736300DZ | FO Universal 1x8 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |

| Numero Materiale | Product | Reaction To Fire | Outer sheath colour | Fibre type | Diametro esterno della guaina [mm] | Raggio di curvatura [mm] | Weight [kg\ km] | Tensile load short term [N] | Tensile load continuous [N] | Crush resistance short term [N] | Crush resistance continuous [N] | Fire load [kWh/m] | Packing unit |
|------------------|-------------------|------------------|---------------------|----------------------------------|------------------------------------|--------------------------|-----------------|-----------------------------|-----------------------------|---------------------------------|---------------------------------|-------------------|--------------|
| 19442200DZ | FO Universal 1x8 | Dca-s2,d1,a1 | heather violet | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19007700DZ | FO Universal 1x12 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19342200DZ | FO Universal 1x12 | Dca-s2,d1,a1 | giallo | E9/125 G.652.D OS2 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19331400DZ | FO Universal 1x12 | Dca-s2,d1,a1 | verde | E9/125 G.652.D BLO | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 18635000DZ | FO Universal 1x12 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19342600DZ | FO Universal 1x12 | Dca-s2,d1,a1 | turchese | G50/125 OM3 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19125100DZ | FO Universal 1x12 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19343000DZ | FO Universal 1x12 | Dca-s2,d1,a1 | heather violet | G50/125 OM4 | 7,6 | 115 | 67 | 3.000 | 1.000 | 5.000 | 3.000 | 0,275 | al metro |
| 19296900DZ | FO Universal 1x12 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 8,2 | 125 | 72 | 3.500 | 1.500 | 5.000 | 3.000 | 0,336 | al metro |
| 18735400DZ | FO Universal 1x24 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 8,2 | 125 | 72 | 3.500 | 1.500 | 5.000 | 3.000 | 0,336 | al metro |
| 19333700DZ | FO Universal 1x24 | Dca-s2,d1,a1 | verde | E9/125 G.652.D BLO | 8,2 | 125 | 72 | 3.500 | 1.500 | 5.000 | 3.000 | 0,336 | al metro |
| 19175500DZ | FO Universal 1x24 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 8,2 | 125 | 72 | 3.500 | 1.500 | 5.000 | 3.000 | 0,336 | al metro |
| 19271300DZ | FO Universal 1x24 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 8,2 | 125 | 72 | 3.500 | 1.500 | 5.000 | 3.000 | 0,336 | al metro |
| 19007100DZ | FO Universal 2x12 | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19342300DZ | FO Universal 2x12 | Dca-s2,d1,a1 | giallo | E9/125 G.652.D OS2 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 18643200DZ | FO Universal 2x12 | Dca-s2,d1,a1 | verde | G50/125 OM3 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19342700DZ | FO Universal 2x12 | Dca-s2,d1,a1 | turchese | G50/125 OM3 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19125200DZ | FO Universal 2x12 | Dca-s2,d1,a1 | verde | G50/125 OM4 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19343100DZ | FO Universal 2x12 | Dca-s2,d1,a1 | heather violet | G50/125 OM4 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19013700DZ | FO Universal Hy- | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 + G50/125 OM3 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |
| 19012400DZ | FO Universal Hy- | Dca-s2,d1,a1 | verde | E9/125 G.652.D OS2 + G50/125 OM4 | 9,5 | 140 | 84 | 4.000 | 1.500 | 5.000 | 3.000 | 0,43 | al metro |

* 12 fibres E9 in red / 12 fibres G50 in green loose tube