



# DATALIGHT® Duplex Fibre 2,2



## product description:

The Duplex Fibre 2.2 DATALIGHT is a polymer optical fibre with PVC outer jacket of grey color. The material is flame-retardant.

This cable is used as a connection for data networks, Internet, IP-TV, IP telephony (VoIP) and others. It fulfills all aspects of a structured wiring. The advantages are the rapid installation through the simple plug-in connection as well as immunity to electromagnetic fields which allows the installation next to power lines. In addition, a small bending radius is possible.



**DATA LIGHT®**



| Art-No.:   | Type      | Color | Bend radius ≥ mm | Outside Ø mm single wire | Content     | PU     | PU/kg |
|------------|-----------|-------|------------------|--------------------------|-------------|--------|-------|
| 257 80 102 | DLF-G100  | grey  | 25               | 2,2                      | 100 / 328   | m / ft | 1,1   |
| 257 80 002 | DLF-G1000 | grey  | 25               | 2,2                      | 1000 / 3280 | m / ft | 11,0  |
| 257 81 025 | DLF-W25   | white | 25               | 2,2                      | 25 / 82     | m / ft | 0,2   |
| 257 81 050 | DLF-W50   | white | 25               | 2,2                      | 50 / 164    | m / ft | 0,4   |
| 257 81 502 | DLF-W500  | white | 25               | 2,2                      | 500 / 1640  | m / ft | 4,0   |

| Polymer Optical Fibre characteristics |  |
|---------------------------------------|--|
| Class (regarding IEC 60793-2)         | A4.a2  |
| Acceptable temperature                | grey -40 °C to +85 °C (-40°F to 185°F), white -55 °C to +70 °C |
| Tensile strength                      | ≥140 N   |
| Core material                         | PMMA   |
| Jacket material                       | grey PVC, white PE   |
| Core refractive index                 | 1.49   |
| Refractive index                      | step index   |
| Numerical aperture                    | 0.5  |
| Core / Cladding diameter              | 980 µm / 1000 µm   |

| Optical characteristics |             |
|-------------------------|-------------|
| Attenuation             | 0,17 dB/m   |
| Wavelength              | 650 nm typ. |

| Accessories                            |          |            |
|--|----------|------------|
| Medium duty corrugated plastic conduit | DLC1011  | 257 40 011 |
| Connector                              | DLCON    | 257 50 002 |
| Auxiliary tool                         | DLCUT    | 257 90 001 |
| Switch                                 | DLES1026 | 257 31 026 |
| Network access socket                  | DLUP1021 | 257 20 021 |
| Wifi access point                      | DLWUP111 | 257 21 111 |

**Hotline**  
 Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time.  
 If you generously install a system of unused conduits today, you can easily expand your electrical installations later.  
 You save lots of time, money and effort!

**We are happy to help you with any technical questions.**  
**Prompt information can be obtained from our technical consultants at +49 9525 88-8123.**

