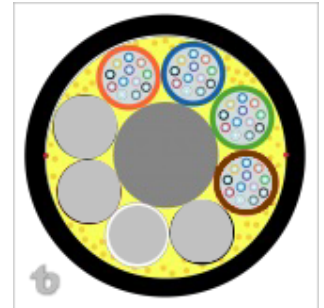


## Fire Resistant Fiber Optic Cables with CPR

**Part Number:** **FRT-090-48/BK - F904804IUB**

**Applications:** CATV and DataCom, Direct burial, General purpose indoor/outdoor LAN, Long Distance OSP

**General Construction:** This gel free cable contains 48 SM G652D color-coded optical fibers in 4 color-coded loose tubes. These tubes include a swellable yarn to prevent the ingress of water and a fire resistant tape is added over the each tube for heat protection. The tubes are SZ stranded around a dielectric central strength member. Waterblocking glass strength yarns reinforce the cable core and an outer jacket completes the cable design.



**Outer Jacket Material:** FR-LSZH  
**Outer Diameter:** 11,7 mm nom.  
**Weight:** 147 kg/km

## Design & Materials

|                                                    |                   |
|----------------------------------------------------|-------------------|
| <b>Buffer Material:</b>                            | HFFR              |
| <b>Tube Diameter:</b>                              | 2.5 mm nom.       |
| <b>Color Code:</b>                                 | Per TIA/EIA 598-D |
| <b>Central Strength Member:</b>                    | FRP               |
| <b>Cabling:</b>                                    | SZ                |
| <b>Strength Elements:</b>                          | E-Glass Yarns     |
| <b>Waterblocking:</b>                              | Dry Waterblocking |
| <b>2 Rip Cords Position Oposite Diametrically:</b> | Yes               |
| <b>Outer Jacket Color:</b>                         | Black             |
| <b>Marking:</b>                                    | Teldor Standard   |

## Standards

|                              |                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicable Standards:</b> | IEC 60794-1-21/22, IEC 60794, ISO/IEC 11801-1, TIA/EIA-568, RoHS 3 2015/863/EU                                                                                       |
| <b>Flammability Rating:</b>  | IEC 60331-25, IEC 60331 FE 90, IEC 60332-1, IEC 60332-3, IEC 60754-1/2, IEC 60754-2, IEC 60754-1, IEC 60754, IEC 61034, IEC 61034-1/2, EN 50575:2014 DcaS2d2a2 (CPR) |

| P/n        | Description                 | Outer Diam. mm | Weight kg/km | Max. Installation Tensile Load (N) | Max. Residual Tension(N) |
|------------|-----------------------------|----------------|--------------|------------------------------------|--------------------------|
| F901201HHB | DRHC-9-01X12-D-ZH-D#S FI BK | 11.7           | 147          | 2000                               | 600                      |
| F902402IKB | DRHC-9-02X12-D-ZH-D#S FI BK | 11.7           | 147          | 2000                               | 600                      |
| F904804IUB | DRHC-9-04X12-D-ZH-D#S FI BK | 11.7           | 147          | 2000                               | 600                      |
| F907206BRB | DRHC-9-06X12-D-ZH-D#S FI BK | 12.5           | 154          | 2000                               | 600                      |
| F909608EFB | DRHC-9-08X12-D-ZH-D#S FI BK | 14.8           | 197          | 2500                               | 750                      |
| F914412EEB | DRHC-9-12X12-D-ZH-D#S FI BK | 19.0           | 315          | 3200                               | 960                      |

## Performance

|                                           |           |
|-------------------------------------------|-----------|
| <b>Max. fiber strain at MIT:</b>          | 0.6 %     |
| <b>Max. Fiber Strain at MRS.:</b>         | 0.2 %     |
| <b>Impact Resistance:</b>                 | 10 N*m    |
| <b>Impact Resistance:</b>                 | 3 cycles  |
| <b>Max. Crush Resistance:</b>             | 400 N/cm  |
| <b>Min. Bend Radius for Installation:</b> | 20xD mm   |
| <b>Min. Bend Radius for Operation:</b>    | 10xD mm   |
| <b>Repeated Bending:</b>                  | 25 cycles |
| <b>Torsion (L=125 x d):</b>               | 10 cycles |
| <b>Max. Operating Temperature:</b>        | +75 °C    |
| <b>Min. Operating Temperature:</b>        | -40 °C    |
| <b>Max. Installation Temperature:</b>     | +45 °C    |
| <b>Min. Installation Temperature:</b>     | -30 °C    |
| <b>Max. Storage Temperature:</b>          | +75 °C    |
| <b>Min. Storage Temperature:</b>          | -40 °C    |
| <b>UV Resistance:</b>                     | Yes       |
| <b>Waterblocking:</b>                     | Yes       |