Construction

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| --- |
| **- Central strength member:** Glass reinforced plastic (GRP) rod  **- Buffer tubes:** 2.5 mm dry polypropylene tube, 12 fibers per tube  **- Optical fibers:** 96 Corning SMF28e+ fibers ITU G652.D single mode fibers  **- Water tightness:** Longitudinal water tightness in the core is ensured with dry blocking material  **- Reinforcement:** Dielectric strength yarns over core  **- Outer jacket:** 1.3 mm nominal black weather resistant medium density polyethylene |

Dimensions

|  |  |
| --- | --- |
| **Fiber Count** | 96 |
| **Outer Diameter** | **12.6 mm (0.50”)** |
| **Weight** | **97 kg/km (65 lb/1000 ft)** |

Main mechanical and environmental properties

Complies to the requirements of Telcordia GR-20-CORE, RUS 7 CFR 1755.900 and ICEA 640.

Mechanical & Environmental Characteristics properties

|  |  |  |  |
| --- | --- | --- | --- |
| Minimum bending radius – under tension – no tension  Installation Tension | 20 x cable diameter 10 x cable diameter  600 lbs max | Temperature range – transportation, storage – installation  - operation | -40°C to +75°C -30°C to +70°C  -40°C to +70°C |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Standard** | **Specified value** | **Acceptance criteria** |
| Temperature cycling | Telcordia GR-20 | -40°C to +70°C | GR-20 : R6-69 |
| Water penetration | Telcordia GR-20 | Sample=1m, water=1m, 24h | GR-20 : R6-75 |

**Marking**

Except where expressly agreed between the parties and specified to the contrary at the time the order is made, all cable markings shall be in white or yellow, at 2 foor or one meter intervals as specified by the order on the outer jacket, and shall include the following inscriptions:

(handset symbol) PRYSMIAN OPTICAL CABLE, month/year of manufacture, number and type of fibers, manufacturing ID number, length marking»