Construction

|  |
| --- |
| **- Central strength member:** Glass reinforced plastic (GRP) rod  **- Buffer tubes:** Dry2.5 mm polypropylene tube, 12 fibers per tube  **- Optical fibers:** 72 Corning SMF28e+ ITU G652.D fibers  **- Water tightness:** Longitudinal water tightness is ensured with dry blocking material  **- Reinforcement:** Dielectric strength yarns over core  **- Outer jacket:** 1.3 mm nominal black weather resistant high density polyethylene |

Dimensions

|  |  |
| --- | --- |
| **Fiber Count** | 72 |
| **Outer Diameter** | **0.43 in (10.9 mm)** |
| **Weight** | **50 lb/kft (75 kg/km)** |

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   1. s 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 one meter or two foot intervals on the outer sheath, and shall include the following inscriptions :

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