Central loose tube cable contains one tube with 12 fiber ribbon, which is filled with water blocking gel. The fiber ribbon can be easily separated by hand tool. Either aramid yarn or fiber glass is wound around the tube to provide physical protection and tensile strength. The cable can be jacketed with either PE, PVC or LSZH though PE is the preferred option for water protection purpose. For direct burial, steel wire armour or corrugated steel tape armour is applied with an optional inner jacket of either PVC or PE. An optional Aluminium moisture tape can be incorporated under the jacket for water blocking and shielding purpose. An optional ripcord can be put under the jacket to facilitate jacket removal.

**Features**

- Large fiber counts with small cable diameter
- Highly adaptable to mass splicing
- Suitable for installation in pipeline
- High quality jelly filled loose tube provides the ribbon fiber satisfactory mechanical and environmental protection.
- Ripcord allows easy jacket removal
- UV or moisture resistant for outdoor application

**Construction**

- Optical Fiber
- Jelly Filled Central Loose Tube
- Optional Water Blocking Tape
- Aramid Yarn / Fiber Glass Yarn
- Optional Ripcord
- Optional Aluminium Moisture Barrier
- PE Outer Jacket

**Unarmoured Type**

**Mechanical Properties**

- **Minimum Bending Radius:**
  - Under installation: 20×OD
  - During operation: 10×OD for unarmoured cables; 20×OD for armoured cables.
- **Temperature Range:**
  - Operating Temperature Range: -40°C to +70°C
  - Storage Temperature Range: -50°C to +70°C

- **Maximum Compressive Load:** 3000N
- **Repeated Impact:** 4.4 N.m (J)
- **Twist (Torsion):** 180×10 times, 125×OD
- **Cyclic Flexing:** 25 cycles for armoured cables; 100 cycles for unarmoured cables.
- **Crush Resistance:** 263N/cm (150lb/in)

**Armoured Type**

**Standard Compliance**

- Telcordia GR-20
- RUS 7 CFR 1755.900 (REA PE-90)
- ICEA S 87-640

**Ordering**

<table>
<thead>
<tr>
<th>Part No</th>
<th>Fiber Count</th>
<th>Nominal Weight (kg/km)</th>
<th>Nominal Weight (lb/ft)</th>
<th>Nominal Outer Diameter (mm)</th>
<th>Maximum Pulling/Tensile Load (N/lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Installation</td>
<td>Operating</td>
<td>Installation</td>
<td>Operating</td>
</tr>
<tr>
<td>14F-XXX-ZZRT2Y</td>
<td>12-96</td>
<td>166.0</td>
<td>111.41</td>
<td>16.2</td>
<td>2670/600</td>
</tr>
<tr>
<td>14F-XXX-ZZRT2Y</td>
<td>108-144</td>
<td>208.0</td>
<td>139.60</td>
<td>18.5</td>
<td>2670/600</td>
</tr>
<tr>
<td>14F-XXX-ZZRT3Y</td>
<td>156-216</td>
<td>244.0</td>
<td>163.76</td>
<td>20.5</td>
<td>2670/600</td>
</tr>
<tr>
<td>14F-XXX-ZZRT3Y</td>
<td>12-96</td>
<td>233.0</td>
<td>156.38</td>
<td>14.8</td>
<td>2670/600</td>
</tr>
<tr>
<td>14F-XXX-ZZRT3Y</td>
<td>108-144</td>
<td>276.0</td>
<td>185.23</td>
<td>16.1</td>
<td>2670/600</td>
</tr>
<tr>
<td>14F-XXX-ZZRT3Y</td>
<td>156-216</td>
<td>316.0</td>
<td>212.08</td>
<td>17.1</td>
<td>2670/600</td>
</tr>
</tbody>
</table>

*For fiber performance tables refer - page No: C49

The true weight of optical cable may had some tolerance with the above stated value