The best technology and customer satisfaction

OPTICAL FIBER CABLES
FTTH. SPLITTER. ACCESSORY

GOT Co., Ltd.
Global Optical Technology Co., Ltd.
GOT production plant in Gwangju, South Korea
Global Optical Technology Co., Ltd.
is the Company pursuing satisfactions of customer with valuable creation and human respect as a basic ideology.

GOT keeps challenging with the spirit relying on the Human respect and pursuing a new technology. New we are manufacturing Optical Cable essential utility of the IT industries for Communication and compose invader detection system with optic technology. We create better life with the Light.

GOT endeavors to develop technologies to be competitive in the 21st century. GOT promise to be the best company at the optical business field.

Thanks.

President Director.
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### FURCATION TUBE

**DESCRIPTION**
- Furcation tube is used for protection of optical fiber or tight buffer fiber.
- Coating considering the easy insertion of fiber core & flexibility for convenience of handling.
- The Tube is manufactured using Aramid Yarn for Fan Out Tubing, offering two types with Simplex Fan Out Tubing & Duplex Fan Out Tubing, to enhance the Tensile Load and protect the optical fiber.
- Consisting of two simplex Sub–units for Duplex Fan Out Tubing enabling the insertion of 0.9mm tight buffers respectively.

**FEATURES**
- Accurate inner & outer diameters
- Easy insertion of optical fiber or tight buffer
- Use of standard colors(Easy color identification)
- Coating material : Flame retardant PVC, LSZH, Hytrel & etc.
  (Certified with UL–OFNR, GOST)
- Operating Temperature Range: −20~70℃

**APPLICATIONS**
- Connection to Single mode or Multimode optical fiber
- Connection between equipments
- Separation of optical fiber & tightbuffer joints
- Medical devices

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>Simplex Fan Out Tube</th>
<th>Duplex Fan Out Tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer/Inner Diameter of Tubing(mm)</td>
<td>0.5/0.9</td>
<td>1.2/1.6</td>
</tr>
<tr>
<td>Outer Diameter of Fan Out Tubing(mm)</td>
<td>0.9</td>
<td>2.0</td>
</tr>
<tr>
<td>Weight(kg/km)</td>
<td>0.8</td>
<td>3.6</td>
</tr>
<tr>
<td>Max. Tensile Load(kg–f) Installation</td>
<td>–</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>Min. Bending Radius(mm) Installation</td>
<td>18</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Min. Bending Radius(mm) Operation</td>
<td>9</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Application</td>
<td>Protection of 250μm optical fiber</td>
<td>Protection of 600μ&amp;900 μm tight buffer fiber</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow</td>
<td>Yellow or Orange Color</td>
</tr>
</tbody>
</table>

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Indoor Cord & Cable + 5
GOT Co., Ltd’s Tight Buffered Fiber Cable product has been widely used in the overall optical fiber communication industry for optical module cabling work between transceiver and pigtailed Laser/LED.

The product has been diversely utilized for those applications of outdoor cable termination devices or subscriber’s networking purpose, as well as the primary fundamental materials in manufacturing of indoor cables.

### Features
- Single-mode or Multimode optical fiber cable used
- Able to use 24 colors – 12 colors
- 12 colors (Line Marking added)
- Small & compact size with excellent flexibility
- Ease of use, Protecting optical fiber
- Coating material: Flame retardant PVC, LSZH, Nylon, TPE (Hytrex) & etc.
- Operating Temperature Range: −20~+70°C

### Applications
- For indoor cabling
- Used in pigtail
- Used in Passive/active devices

### Characteristics

<table>
<thead>
<tr>
<th>Outer Diameter(㎛)</th>
<th>Weight(kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>0.4</td>
</tr>
<tr>
<td>900</td>
<td>0.9</td>
</tr>
</tbody>
</table>

### Optical Attenuation

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Mode (9/125㎛)</td>
<td>–</td>
<td>–</td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.35</td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Above cable construction & feature may be revised without prior notice to implement the quality improvement.
# CORD (Simples, Duplexes)

## DESCRIPTION
- Simplex and Duplex cord are of stable construction coated around the outside of Tight Buffer Fiber one more time with resin in order to maintain the outstanding mechanical, environmental & transmission characteristics for indoor installation.
- The product is manufactured with the Aramid Yarn inserted to enhance the Tensile Load and protect the optical fiber.
- Particularly, the coating can be conveniently removed without using any special equipments or tools in the event of indoor installation.

## FEATURES
- Single-mode or Multimode optical fiber used
- Compact & highly flexible
- Easy peeling for enabling (Guaranteed long life cycle)
- Made with Aramid Yarn (Tensile Load & impact resistance enhanced)
- Coating materials: Flame retardant PVC, PU, LSZH & etc. (Certified with UL-OFNR & GOST)
- Operating temperature range: -10°~70°C

## APPLICATIONS
- Indoor or outdoor duct cabling
- Indoor cable network (FTTH)
- Horizontal cabling inside building
- LAM cabling
- Connection of pigtail & optical fiber cable connector

## CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Outer Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Max. Tensile Load (kg-f)</th>
<th>Min. Bending Radius (mm)</th>
<th>Installation</th>
<th>Operation</th>
</tr>
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<tbody>
<tr>
<td>Simplex</td>
<td>1</td>
<td>1.6</td>
<td>2.9</td>
<td>10</td>
<td>D×20</td>
<td>D×20</td>
<td>D×10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.8</td>
<td>3.3</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0</td>
<td>3.7</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4</td>
<td>4.7</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.0</td>
<td>6.7</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duplex</td>
<td>2</td>
<td>1.6X3.2</td>
<td>5.8</td>
<td>20</td>
<td>D×10</td>
<td>D×20</td>
<td>D×10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.8X3.6</td>
<td>6.6</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0X4.0</td>
<td>7.4</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4X4.8</td>
<td>9.4</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.0X6.0</td>
<td>13.4</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Mode (9/125)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attenuation (dB/km)</td>
<td>≤0.40</td>
<td>≤1.00</td>
<td>≤1.00</td>
<td>≤0.30</td>
<td>≤0.35</td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attenuation (dB/km)</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td>≤1.00</td>
<td>≤0.30</td>
<td>≤0.35</td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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4C ZIP CORD

DESCRIPTION
- 4C Zip Cable is an optical fiber cable, designed with 4 cores using Single mode and multimode optical fiber for application connecting between the equipments.
- Mutual signal communication between the telecommunication equipments available, inserting Aramid Yarn for enhancement of Tensile Load and protection of optical fiber, provided with outstanding mechanical & environmental characteristics.

FEATURES
- single-mode or Multimode optical fiber used
- Ease of handling with flexibility and light weight
- Ease of connection or core separation
- Coating material : Flame retardant PVC, PU, LSZH, & etc. (Certified with UL-OFNR, GOST)
- Operating Temperature Range : -10~70℃

APPLICATIONS
- Connection of indoor systems
- Patch code of optical fiber cable distribution box
- Super high speed distribution network (FTTx)
- Housing Distribution Network

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Cores</th>
<th>Outer Diameter (Height×Width)</th>
<th>Weight(kg/km)</th>
<th>Max.TensileLoad (kg·f)</th>
<th>Min.Bending Radius(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2.0×8.4</td>
<td>14.8</td>
<td>60</td>
<td>Dx20</td>
</tr>
<tr>
<td></td>
<td>2.4×10</td>
<td>18.8</td>
<td>100</td>
<td>Dx10</td>
</tr>
<tr>
<td></td>
<td>2.9×12</td>
<td>26.8</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Mode (9/125)</td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.035</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
2C FLAT CORD

DESCRIPTION
- Resilient and flexible for jumpers, patch cords, and pigtails
- Suitable for general-purpose indoor use, such as routing connections in patching systems
- Short "patch cord" ideal for links between electronic equipment and main fiber optic cables

FEATURES & APPLICATIONS
- Compatible with all standard fiber optic connectors designed for small form-factor simplex and duplex connectors such as MT-RJ and LC connectors
- High performance tight-buffered coating on each optical fiber for environmental and mechanical protection
- Custom jacket colors are available to match connectors

CROSS SECTION

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km  
  @1380nm ≤ 0.36 dB/km  
  @1550nm ≤ 0.30 dB/km  
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km)^1/2, Cut-off wavelength ≤1260nm
- Multi mode  @ 850nm ≤ 3.5 dB/km  
  @1300nm ≤ 1.5 db/km  
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, Kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F</td>
<td>6.6±0.4X3.8±0.3</td>
<td>28</td>
<td>800</td>
<td>Cable Dia*15</td>
<td><del>20</del>+70</td>
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</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
2C STEEL ARMORED DUPLEX CORD

DESCRIPTION

- Resilient and flexible for jumpers, patch cords, and pigtails
- Suitable for general-purpose indoor use, such as routing connections in patching systems
- Short "patch cord" Cables ideal for links between electronic equipment and main fiber optic cables

FEATURES & APPLICATIONS

- Compatible with all standard fiber optic connectors designed for small form-factor simplex and duplex connectors such as MT-RJ and LC connectors
- High performance tight-buffered coating on each optical fiber for environmental and mechanical protection

OPTICAL SPECIFICATIONS

- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2 dB/(ps/km)², Cut-off wavelength ≤1260nm
- Multi mode @850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1F</td>
<td>3.0±0.05X6.0±0.1</td>
<td>19</td>
<td>400</td>
<td>Cable Dia*35</td>
<td>-20 ~ +70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*25</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
RIBBON CORD CABLE

DESCRIPTION
- Designed to allow easy connection within tight space by arranging the 4~12 care optical fibers in regular distance.
- Use of Ribbon Cable allows realizing the economical efficiency resulted from reduced connection cost & work process.

FEATURES
- High density optical fiber cable
- No. of standard optical fiber cable core : 4, 8, 12
- High Tensile Load
- Ease of connection
- Coating Materials : Flame retardant PVC, PU, LSZH & etc.
- Operating Temperature Range: -10~70°C

APPLICATIONS
- Mutual connection between equipments
- Able to connect inside panel board & Workstation
- Distribution network of mail line

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Cores</th>
<th>Outer Diameter (Height×Width)</th>
<th>Weight(kg/km)</th>
<th>Max.TensileLoad (kg·f)</th>
<th>Min.Bending Radius(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
</tr>
<tr>
<td>4</td>
<td>2.0×2.2</td>
<td>9.5</td>
<td>50</td>
<td>Dx20</td>
</tr>
<tr>
<td>8</td>
<td>4.3×2.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4.3×2.2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>single-Mode (9/125)</td>
<td>≤0.40</td>
<td>≥1310nm</td>
<td>≤0.30</td>
<td>≤0.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DOUBLE JACKETED RIBBON CORD

DESCRIPTION
- High density Optical Fiber
- Number of standard Fiber optic cable core: 4,8,12
- High Tensile Load
- Ease of connection
- Coating material: Flame retardant PVC, PU, LSZH etc.
- Operating Temperature Range: -20~+70℃

FEATURES & APPLICATIONS
- Patch panels
- Multi-fiber jumper Assembly
- Pigtails and patch cords

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1380nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
  PMD ≤ 0.2dB/(ps/km)½, Cut-off wavelength ≤1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No. of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F</td>
<td>5.1±0.3, 4.5±0.15</td>
<td>14</td>
<td>600</td>
<td>Cable Dia*35</td>
<td>-20 ~ +70</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**DESCRIPTION**

- Designed to improve the flexibility and tensile load to conveniently use at both indoor & outdoor installation.
- The aramid yarn is inserted in the number of tight buffered fiber to enhance the tensile load.
- For the cable exceeds 12 cores, the excellent mechanical & environmental characteristics are provided with the multiple Sub-unit construction.

**FEATURES**

- Single-mode or Multimode optical fiber used
- Tight buffered fiber used
- Ease of identification using 12 colors
- Ease of handling with flexibility & light weight
- Coating materials: Flame retardant PVC, PU, LSZH & etc. (Certified with UL-OFNR & GOST)
- Operating temperature range: -20~70°C

**APPLICATIONS**

- FTTxNetworking
- Indoor/outdoor applications
- Backbone within building
- LAN

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Cores</th>
<th>Outer Diameter (Height×Width)</th>
<th>Weight(kg/km)</th>
<th>Max.TensileLoad (kg·f)</th>
<th>Min.Bending Radius(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4.7</td>
<td>20</td>
<td>66</td>
<td>D×20</td>
</tr>
<tr>
<td>6</td>
<td>5.5</td>
<td>23</td>
<td>66</td>
<td>D×10</td>
</tr>
<tr>
<td>8</td>
<td>6.1</td>
<td>39</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>6.5</td>
<td>40</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>9.0</td>
<td>80</td>
<td>132</td>
<td></td>
</tr>
</tbody>
</table>

**OPTICAL ATTENUATION**

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Mode (9/125)</td>
<td></td>
<td>≤0.40</td>
<td></td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.35</td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
OPTICAL FIBER CABLES

DISTRIBUTION CABLE (Upto 96 Cores)

DESCRIPTION
- Used in trenching, LAN and distribution applications
- Versatile installation capability is required for ducts, plenum and air-handling spaces
- Design allows sub cables to be routed to multiple location such as wiring racks and closets

CROSS SECTION

FEATURES & APPLICATIONS
- High performance components and construction,
- Cable materials are indoor/outdoor – UV, water and fungus resistant
- Operating Temperature Range: –20~70℃
- Helically stranded core for greater flexibility.

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km½), Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>48F</td>
<td>15.5±0.5</td>
<td>257</td>
<td>2,500</td>
<td>Cable*15</td>
<td>−20~+70</td>
</tr>
<tr>
<td>72F</td>
<td>18.1±0.5</td>
<td>290</td>
<td>2,500</td>
<td>Cable Dia*10</td>
<td></td>
</tr>
<tr>
<td>96F</td>
<td>22.9±0.5</td>
<td>257</td>
<td>4,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DISTRIBUTION CABLE FOR AERIAL (FIG-8)

DESCRIPTION

- Light weight, compact & ease of handling
- Economic construction for aerial cabling applications
- Outstanding mechanical & environmental characteristics
- Operating temperature range: -20~70°C

CROSS SECTION

FEATURES & APPLICATIONS

- Aerial type
- Outdoor cable
- FTTH (Fiber To The Home)

OPTICAL SPECIFICATIONS

- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
  PMD ≤ 0.2dB(ps/km^½), Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No. of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>6F</td>
<td>5.5±0.25*9.3±0.4</td>
<td>46</td>
<td>1,200</td>
<td>Cable Dia*20</td>
<td>Cable Dia*15</td>
</tr>
<tr>
<td>8F</td>
<td>6.1±0.25*9.9±0.4</td>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
ARMORED DISTRIBUTION CABLE (Al Armored)

DESCRIPTION
- Highly flexible & light weight
- Ease of peeling enabling fast connection
- Coating material: Flame retardant PVC, PU, LSZH etc.
- Operating Temperature Range: -40~70°C

CROSS SECTION
- Nylon or hytrel Vo
- Tight buffer
- Aramid yarn
- 1ST sheath LSZH
- Al tape
- Outer sheath LSZH

FEATURES & APPLICATIONS
- Patch cords
- LAN distribution
- Outdoor cable

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1380nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km)^1/2, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F</td>
<td>5.8±0.2</td>
<td>40</td>
<td>800</td>
<td>Cable*15</td>
<td>-40~+60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*10</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
ARMORED DISTRIBUTION CABLE (Steel Armored)

DESCRIPTION
- Used in areas that require a riser rating and are susceptible to damage from small non-burrowing rodents

CROSS SECTION

FEATURES & APPLICATIONS
- Includes a layer of fiberglass yarn that provides an effective deterrent to damage caused by small non-burrowing rodents (not recommended for direct burial applications)
- FRP is ideal for use in surface installations
- Cables are suitable for use with single, as well as multi channel connectors

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1380nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
- PMD ≤ 0.2 dB/(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
  50/125μm(OM2, OM3, OM4), 62.5/125μm(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>6F</td>
<td>5.8±0.2</td>
<td>125</td>
<td>800</td>
<td>Cable*15</td>
<td>-40~+70</td>
</tr>
<tr>
<td>12F</td>
<td>12.6±0.5</td>
<td>180</td>
<td>1,200</td>
<td>Cable Dia*10</td>
<td></td>
</tr>
<tr>
<td>24F</td>
<td>20.1±0.5</td>
<td>415</td>
<td>1,800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
BREAKOUT CABLE

DESCRIPTION
- Used in trenching, LAN and distribution applications where versatile installation capability is required for ducts, plenums and air-handling spaces.
- Design allows sub cables to be routed to multiple locations such as wiring racks and closets.

CROSS SECTION

FEATURES & APPLICATIONS
- High performance components and construction
- Cable materials are indoor/outdoor – UV, water and fungus resistant
- Operating Temperature Range: -20~85°C
- Helically stranded core for greater flexibility and mechanical protection of the optical fibers

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>2F</td>
<td>7.5±0.3</td>
<td>40</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4F</td>
<td>7.5±0.3</td>
<td>40</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6F</td>
<td>8.5±0.5</td>
<td>75</td>
<td>1,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8F</td>
<td>10.0±0.5</td>
<td>90</td>
<td>1,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td>12.5±0.5</td>
<td>150</td>
<td>1,800</td>
<td>Cable Dia*15</td>
<td></td>
</tr>
<tr>
<td>16F</td>
<td>16.0±0.8</td>
<td>300</td>
<td>1,800</td>
<td>Cable Dia*10</td>
<td></td>
</tr>
<tr>
<td>24F</td>
<td>19.0±0.8</td>
<td>450</td>
<td>2,000</td>
<td></td>
<td>-20~+70</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DUCT LOOSE TUBE CABLE (Non-metallic)

DESCRIPTION
- Ideal for installations requiring a rugged and reliable cable design where maximum mechanical and environmental protection is necessary.
- Typical industrial uses are factory automation, power generation and other utilities, oil and gas refining, and surface mining.

CROSS SECTION

FEATURES & APPLICATIONS
- Best design for multimode and single-mode fiber hybrid/composite cables.
- Design allows multi-fiber sub cables to be routed to multiple locations such as wiring racks and closets.
- Designed for indoor/outdoor installations, including cable trays.
- 12~288 fiber configurations are available with 6~12 fibers per tube.

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.36 dB/km
  @1383nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
  PMD ≤ 0.2dB(ps/km)½
  Cut-off wavelength ≤ 1260nm
- Multi mode, @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.0 db/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>4~24F</td>
<td>11.8±0.7</td>
<td>95</td>
<td>1,500</td>
<td></td>
<td>−20～+70</td>
</tr>
<tr>
<td>36~72F</td>
<td>12.0±0.7</td>
<td>110</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>96F</td>
<td>13.7±0.7</td>
<td>140</td>
<td>2,000</td>
<td>Cable Dia*20</td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td>16.3±0.7</td>
<td>205</td>
<td></td>
<td>Cable Dia*15</td>
<td></td>
</tr>
<tr>
<td>288F</td>
<td>20.0±0.7</td>
<td>300</td>
<td>2,500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR DUCT (Flame-Retardant)

DESCRIPTION
- Indoor/outdoor tight-buffed design allows cables to be installed in intra-building backbone and inter-building campus locations without costly transitions between cable types.
- Design allows multi fiber sub cables to be routed to multiple locations such as wiring racks and closets.

CROSS SECTION

FEATURES & APPLICATIONS
- High performance components and construction
- Cable materials are indoor/outdoor : UV, water and fungus resistant, flame-retardant.
- Operating Temperature Range : -40~70℃

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.36 dB/km
  @1383nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode: @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
- 50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min,Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4~36F</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48~72F</td>
<td>10.7±0.5</td>
<td>120</td>
<td>1,500</td>
<td>Cable Dia*20</td>
<td>-40~++70</td>
</tr>
<tr>
<td>96F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DUCT LOOSE TUBE CABLE FOR DUCT
(Single Jacket Single Armor : SJSA Type)

DESCRIPTION
- Ideal for installations requiring a rugged and reliable cable design where maximum mechanical and environmental protection is necessary
- Typical industrial uses are factory automation, power generation and other utilities, oil and gas refining, and surface mining

FEATURES & APPLICATIONS
- Best design for multimode and single-mode fiber hybrid/composite cables
- Design allows be routed to multiple locations such as wiring racks and closets
- Designed for indoor/outdoor installations, including cable trays
- 12–288 fiber configurations are available with 6–12 fibers per tube

CROSS SECTION

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.36 dB/km
  @1380nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB (ps/km) ½
- Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
- OM2, OM3, OM4, 62.5/125μm(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>Operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4～24F</td>
<td>12.2±0.7</td>
<td>150</td>
<td>1,500</td>
<td>Cable Dia*20</td>
<td>−40～70</td>
</tr>
<tr>
<td>36～72F</td>
<td>12.5±0.7</td>
<td>160</td>
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<td></td>
</tr>
<tr>
<td>96F</td>
<td>14.0±0.7</td>
<td>190</td>
<td>2,000</td>
<td>Cable Dia*15</td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td>16.3±0.7</td>
<td>250</td>
<td>2,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>288F</td>
<td>20.3±0.7</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR AERIAL (Fig-8)

DESCRIPTION
- Light weight, compact & ease of handling
- Economic construction for aerial cabling application
- Outstanding mechanical & environmental characteristics
- Operating Temperature Range: −40～70℃

CROSS SECTION

FEATURES & APPLICATIONS
- Aerial type
- Outdoor cable
- FTTH (Fiber To The Home)

OPTICAL SPECIFICATIONS
- Single mode @1310 nm ≤ 0.36 dB/km
  @1383 nm ≤ 0.35 dB/km
  @1550 nm ≤ 0.22 dB/km
  @1625 nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB/(ps/km)½, Cut-off wavelength ≤ 1260 nm
- Multi mode @ 850 nm ≤ 3.0 dB/km
  @1300 nm ≤ 1.0 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max,Tensile Load(N)</th>
<th>Min,Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>4F</td>
<td>8.6±0.5*13.3±0.5</td>
<td>93</td>
<td>1,200N</td>
<td>Cable Dia*20</td>
<td>Cable Dia*15</td>
</tr>
<tr>
<td>8F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36F</td>
<td>9.0±0.5*13.7±0.5</td>
<td>105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR AERIAL
(Fig-8, Steel Armored)

DESCRIPTION
- Figure-eight construction for use with standard messenger clamping and support hardware.
- Ideal for new installations. The figure-eight messenger cable reduces installation time and cost by approximately 50% compared to separate installation of a messenger wire and the lashing of the cable to the messenger.
- Wide operating temperature range of ~40°C to +85°C.

CROSS SECTION

FEATURES & APPLICATIONS
- Outdoor aerial installations along utility poles for cable television, telecom or other outside plant campus backbone applications without the need for cable lashing.
- 1/4-inch galvanized messenger standard.
- Polyethylene outer cable jacket for excellent UV and weather resistance.

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.36 dB/km
  @1380nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB(ps/km)1/2
- Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>4~72F</td>
<td>10.5±0.7*17.6±0.7</td>
<td>160</td>
<td>5,000</td>
<td>Cable Dia*20</td>
<td>-40~+70</td>
</tr>
<tr>
<td>96F</td>
<td>12.7±0.7*19.8±0.7</td>
<td>205</td>
<td></td>
<td>Cable Dia*15</td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td>15.3±0.7*22.4±0.7</td>
<td>270</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR AERIAL
(ADSS Single Jacket : KP Type)

DESCRIPTION
- Ideal for installations where direct burial or rodent protection is required
- Design allows sub cables to be routed to multiple locations such as wiring racks and closets

CROSS SECTION

FEATURES & APPLICATIONS
- Inner cable is a fully G–Series Sub grouping riser-rated cable
- High–performance components and construction
  6–fiber or 12–fiber per tube available

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.36 dB/km
  @1383nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB(ps/kmⅠⅡ), Cut-off wavelength ≤ 1260nm
- Multi mode  @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
- 50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12~72F</td>
<td>11.0±0.7</td>
<td>95</td>
<td>1,800</td>
<td>Cable Dia*20</td>
<td>−40~+70</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR AERIAL
(ADSS Double Jacket : PKP Type)

DESCRIPTION

- Inner cable is a fully functional G–Series Sub grouping riser–rated cable
- High–performance components and construction 6–fiber or 12–fiber subgroups available
- The steel–armor is easily removed with an internal ripcord, leaving a fully functional intact riser–rated inner cable with original cable markings for identification

CROSS SECTION

FEATURES & APPLICATIONS

- Ineal for installations where direct burial or rodent protection is required
- Design allows seb cables to be routed to multiple locations such as wiring racks and closets

OPTICAL SPECIFICATIONS

- Single mode @1310nm ≤ 0.36 dB/km
  @1380nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
- PMD ≤ 0.2dB(ps/km)½, Cut–off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
  50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12~72F</td>
<td>14.2±1.0</td>
<td>150</td>
<td>4,000</td>
<td>Cable Dia*20</td>
<td>−30~~+70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*15</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR DIRECT BURIAL
(Double Jacket Single Armor : DJSA Type)

DESCRIPTION

» Ideal for installations where direct burial or rodent protection is required
» Design allows sub cables to be routed to multiple locations such as wiring racks and closets
» Ideal for installations requiring an extremely rugged and reliable cable design where maximum mechanical and environmental protection is necessary

CROSS SECTION

FEATURES & APPLICATIONS

» High-performance components and construction 6-fiber or 12-fiber per tube available
» The steel-armor is easily removed with an internal ripcord, leaving a fully functional intact riser-rated inner cable with original cable markings for identification
» Helically stranded core for greater flexibility and mechanical protection of the optical fibers

OPTICAL SPECIFICATIONS

» Single mode @1310nm ≤ 0.36 dB/km @1380nm ≤ 0.35 dB/km @1550nm ≤ 0.22 dB/km @1625nm ≤ 0.25 dB/km
PMID ≤ 0.2dB(ps/km)^½, Cut-off wavelength ≤ 1260nm
» Multi mode @ 850nm ≤ 3.0 dB/km @1300nm ≤ 1.0 db/km 50/125μm(OM2, OM3, OM4), 62.5/125μm(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>12~72F</td>
<td>14.4±1.0</td>
<td>220</td>
<td>2,500</td>
<td>Cable Dia*20</td>
<td>40~70</td>
</tr>
<tr>
<td>96F</td>
<td>16.6±1.0</td>
<td>285</td>
<td>3,000</td>
<td>Cable Dia*15</td>
<td>−40~70</td>
</tr>
<tr>
<td>144F</td>
<td>19.3±1.0</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DISTRIBUTION CABLE (Hanger Type)

CROSS SECTION
- 1 fiber / 1 tube structure, Aramid yarn reinforce, High tensile strength.

FEATURES
- Applicable for duct or aerial installation
- Easy distribution
- Excellent mechanical & optical characteristics
- High tensile strength & characteristic

APPLICATIONS
- Aerial laying
- Luxury condominium & common housing (FTTH)
- Office buildings, Government offices

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Outer Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Min. Bending Radius (mm)</th>
<th>Max. Tensile Load (kg.f)</th>
<th>Crush force (N/100mm)</th>
<th>Temperature cycling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution</td>
<td>8F</td>
<td>10.0mm</td>
<td>85</td>
<td>60</td>
<td>3,000</td>
<td>4,500</td>
<td>-20~+70</td>
</tr>
<tr>
<td></td>
<td>10F</td>
<td>10.7mm</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12F</td>
<td>11.5mm</td>
<td>115</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18F</td>
<td>12.4mm</td>
<td>120</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>13.7mm</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard color: Blue, Orange, Green, Brown, Gray, White, Red, Black, Pink, Turquoise, Gold, Silver
Optical Fiber: G652D

OPTICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td>SMF(G.652D)</td>
<td>≤0.0350</td>
<td>≤0.350</td>
<td>≤0.215</td>
<td>≤0.350</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
LOOSE TUBE CABLE FOR DISTRIBUTION (Fig-8 Type)

TECHNICAL SPECIFICATIONS

- Fiber / tube structure,
- Aramid yarn reinforce,
- High tensile strength,

FEATURES

- Applicable for self-supporting aerial installation
- Easy distribution
- Excellent mechanical & optical characteristics
- High tensile strength & characteristic

APPLICATIONS

- Aerial laying
- Luxury condominium & Common housing (FTTH)
- Office buildings, Government offices

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Outer Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Min. Bending Radius (mm)</th>
<th>Max. Tensile Load (kgf)</th>
<th>Crush force (N/100mm)</th>
<th>Temperature cycling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution</td>
<td>8F</td>
<td>9.9mmx17.0mm</td>
<td>155</td>
<td>60</td>
<td>3,000</td>
<td>4,500</td>
<td>-20℃~+70℃</td>
</tr>
<tr>
<td></td>
<td>10F</td>
<td>9.9mmx17.7mm</td>
<td>170</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12F</td>
<td>10.7mmx18.5mm</td>
<td>180</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18F</td>
<td>11.6mmx19.4mm</td>
<td>190</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>12.9mmx20.7mm</td>
<td>215</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard color: Blue, Orange, Green, Brown, Gray, White, Red, Black, Pink, Turquoise, Gold, Silver
Optical Fiber: G652D

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td>≤0.0350</td>
<td>≤0.0350</td>
<td>≤0.215</td>
<td>≤0.350</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.*
CENTRAL LOOSE TUBE CABLE

DESCRIPTION
- Suitable outdoor application (Aerial Installation)
- ABC (Air Blown Cable)

CROSS SECTION

FEATURES & APPLICATIONS
- Easy handling, small, light
- Duct type, Aerial type

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1380nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
- PMD ≤ 0.2dB/(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duct 2~12</td>
<td>4.5±0.2</td>
<td>16.0</td>
<td>800</td>
<td>Cable Dia*15</td>
<td>-20~+70</td>
</tr>
<tr>
<td>Aerial 2~12</td>
<td>5.0±0.4</td>
<td>55.0</td>
<td>1,500</td>
<td>Cable Dia*10</td>
<td>-20~+70</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
CENTRAL LOOSE TUBE CABLE (Flame-Retardant)

DESCRIPTION
- Suitable outdoor application
- ABC (Air Brown Cable)

CROSS SECTION

FEATURES & APPLICATIONS
- Easy handling, small, light
- Duct & aerial type

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1383nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
- PMD ≤ 0.2dB(ps/km²)
- Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
- 50/125μm (OM2, OM3, OM4), 62.5/125μm (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load (N)</th>
<th>Min.Bending Radius (mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>4F</td>
<td>7.3±0.3</td>
<td>57</td>
<td>1,600N</td>
<td>Cable Dia*15</td>
<td>−40~+70</td>
</tr>
<tr>
<td>8F</td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*10</td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.*
CENTRAL LOOSE TUBE CABLE (Flat Type)

DESCRIPTION
- Application for conduit & aerial installation
- Small size and low friction
- Excellent mechanical & optical characteristics
- Light weight and cost efficient

FEATURES & APPLICATIONS
- Conduit, Duct, Aerial Laying
- Luxury Condominium & Common Housing (FTTH)
- Office Building, Government Offices
- CVTV, Internet cafe

CROSS SECTION

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>2~12F</td>
<td>8.3±0.3*4.3±0.5</td>
<td>40</td>
<td>2,000</td>
<td>Cable Dia*15</td>
<td>Cable Dia*10</td>
</tr>
<tr>
<td>16~24F</td>
<td>10.6±0.5*5.1±0.5</td>
<td>55</td>
<td>4,000</td>
<td>Cable Dia*15</td>
<td>Cable Dia*10</td>
</tr>
</tbody>
</table>

Above cable construction & feature may be revised without prior notice to implement the quality improvement.

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1383nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
- PMD ≤ 0.2dB(ps/km²), Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)
CENTRAL LOOSE TUBE CABLE (Steel Armored)

DESCRIPTION
- Highly flexible & light weight
- Ease of peeling enabling fast connection
- Coating material: flame retardant PVC, PU, LSZH etc.
- Operating Temperature Range: -40~70°C

CROSS SECTION

FEATURES & APPLICATIONS
- LAN distribution
- Outdoor cable

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1383nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
  PMD ≤ 0.2dB(ps/km)², Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No. of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>2F</td>
<td>8.8±0.3</td>
<td>76</td>
<td>1,500</td>
<td>Cable Dia*15</td>
<td>Cable Dia*10</td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**MICRO SHEATH CABLE (Distribution Type)**

**DESCRIPTION**
- Distribution type (Max. 144 core)
- Ease of handling with flexibility
- Ease of identification using 12 Colors
- Operating temperature Range: -20~70°C

**CROSS SECTION**

**FEATURES & APPLICATIONS**
- Intra building backbone
- OFD: optical Frame distribution
- FDDI, LAN distribution
- Indoor and outdoor cable

**OPTICAL SPECIFICATIONS**
- Single mode @1310nm ≤ 0.40 dB/km
  - @1383nm ≤ 0.36 dB/km
  - @1550nm ≤ 0.30 dB/km
  - @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km<sup>1/2</sup>), Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  - @1300nm ≤ 1.5 db/km
- 50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12F</td>
<td>2.95±0.1</td>
<td>9</td>
<td>500</td>
<td>Cable Dia*20</td>
<td>-20~+70</td>
</tr>
<tr>
<td>24F</td>
<td>6.9±0.2</td>
<td>44</td>
<td>600</td>
<td>Cable Dia*15</td>
<td></td>
</tr>
<tr>
<td>48F</td>
<td>7.2±0.3</td>
<td>49</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72F</td>
<td>7.7±0.3</td>
<td>58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>96F</td>
<td>8.4±0.3</td>
<td>67</td>
<td>1,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td>11.5±0.5</td>
<td>91</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
DRY CORE MICRO SHEATH CABLE FOR DUCT

DESCRIPTION
- Distribution type (Max. 144 core)
- Ease of handling with flexibility
- Ease of identification using 12 Colors
- Operating temperature Range: -20~70°C

FEATURES & APPLICATIONS
- Intra building backbone
- OFD: optical Frame distribution
- FDDI, LAN distribution
- Indoor and outdoor cable

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
- 50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No. of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range (℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>48F</td>
<td>9.8±0.4</td>
<td>104</td>
<td>1,200</td>
<td>Cable Dia*20</td>
<td>Cable Dia*10</td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
FIG-8 MICRO SHEATH CABLE

DESCRIPTION
- Light weight, compact & ease of handling
- Economic construction for aerial cabling application
- Outstanding mechanical & environmental characteristics
- Operating Temperature Range: -20~70°C

CROSS SECTION

FEATURES & APPLICATIONS
- Aerial type
- Outdoor cable
- FTTH (Fiber To The Home)

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1380nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km

- PMD ≤ 0.2dB/(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km

50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>4F</td>
<td>5.0±0.3*8.0±0.3</td>
<td>45</td>
<td>1,000</td>
<td>Cable Dia*15</td>
<td>Cable Dia*10</td>
</tr>
<tr>
<td>6F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
MICRO SHEATH CABLE (Breakout Type)

**DESCRIPTION**
- Optical fiber: 12F ~ 144F
- Small and light compared to other fiber optic cables
- Frame Retardant & Low Smoke Zero Halogen (LSZH)

**FEATURES**
- ITU-T G.652D & G.657A/B
- Indoor and outdoor available
- Easy to handle
- Breakout type
- Operation Temperature Range: -20~+70℃

**APPLICATIONS**
- Backbone in buildings
- Large subscriber system
- Intermediate distance transmission system
- Large LAN system
- Indoor/outdoor application

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Crush(N)</th>
<th>Min.Bending Radius(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td>6.4±0.3</td>
<td>39</td>
<td>600</td>
<td>600</td>
<td>D×15</td>
</tr>
<tr>
<td>24F</td>
<td>8.5±0.3</td>
<td>77</td>
<td>600</td>
<td>600</td>
<td>D×10</td>
</tr>
<tr>
<td>48F</td>
<td>9.3±0.3</td>
<td>87</td>
<td>600</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>72F</td>
<td>11.5±0.5</td>
<td>111</td>
<td>800</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>96F</td>
<td>14.0±0.5</td>
<td>143</td>
<td>1,000</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>144F</td>
<td>17.5±0.5</td>
<td>206</td>
<td>1,000</td>
<td>800</td>
<td></td>
</tr>
</tbody>
</table>

**OPTICAL ATTENUATION**

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>1310nm</th>
<th>1383nm</th>
<th>1550nm</th>
<th>1625nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-mode(G.652D &amp; G.657/B)</td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.35</td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
STEEL ARMORED CABLE

DESCRIPTION
- Protective Armored Cable is designed with construction inserting 0.6/0.9 Tight Buffer Fiber Cable within the stainless steel tube for application in special environment, provided with enhanced tensile strength & stress withstanding performance.
- The cable is offered for multiple applications with the ease of handling & superior flexibility in comparison with common cables.

FEATURES
- Excellent protection performance under severe environment
- Stainless Steel & steel Tube reinforced construction
- Excellent tensile strength & compression characteristics
- Strengthened cable protection from rodents
- Economical installation & maintenance costs with simple cable laying procedure
- Securing excellent durability & reliability
- Coating materials : Flame retardant PVC, PU, LSZH & etc.
- Operating Temperature Range : -20~70°C

APPLICATIONS
- For FTTH, CATV & CCTV applications
- For special application, military use & emergency recovery
- Vulnerable environments such as seashore, remote mountainous areas
- For elevator application
- For Under Carpet application
- For connection of patch Cord or Connectors

CHARACTERISTICS

<table>
<thead>
<tr>
<th>T/B Outer Diameter</th>
<th>No.of Cores</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Min.Bending Radius(mm)</th>
<th>Extrusion Characteristic (N/100mm)</th>
<th>Tensile Strength Characteristic(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td>1</td>
<td>3.0</td>
<td>15</td>
<td>30</td>
<td>300</td>
<td>30</td>
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<tr>
<td></td>
<td>2</td>
<td>3.5</td>
<td>21</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>4.0</td>
<td>27</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9</td>
<td>1</td>
<td>3.0</td>
<td>16</td>
<td>30</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2</td>
<td>4.0</td>
<td>27</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>4.5</td>
<td>33</td>
<td>45</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Mode(9/125)</td>
<td></td>
<td></td>
<td></td>
<td>≤0.40</td>
<td>≤0.30</td>
<td>≤0.35</td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td></td>
<td></td>
<td>≤1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.00</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
STEEL ARMORED CABLE (Double Sheath)

**DESCRIPTION**
- Highly flexible & light weight
- Ease of peeling enabling fast connection
- Coating material: flame retardant PVC, PU, LSZH etc.
- Operating temperature Range: −40~70℃

**CROSS SECTION**

**FEATURES & APPLICATIONS**
- Patch cords
- LAN distribution
- Outdoor cable

**OPTICAL SPECIFICATIONS**
- Single mode @1310nm ≤ 0.40 dB/km
  @1380nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
  PMD ≤ 0.2dB(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 db/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No. of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range (℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F</td>
<td>9.8±0.4</td>
<td>104</td>
<td>1,200</td>
<td>Cable Dia*20</td>
<td>−40~70</td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.
MILITARY TACTICAL OPTICAL CABLE

DESCRIPTION
- Military tactical cable is of construction inserting two or four optical fiber cords, offering application to connector attached optical fiber cable as well with ease connection and handling of optical fiber cords at the cable ends.
- Insertion of 900μm tight buffer and aramid yarn protect the optical fiber, strengthening the mechanical & environmental characteristics.

FEATURES
- Ease of handling when laying the cable (Excellent mechanical characteristics)
- Ease of handling with flexibility & light weight
- Similar construction with break out cable
- Coating materials: Flame retardant PVC, PU, LSZH & etc.
- Operating Temperature Range: -40~70℃

APPLICATIONS
- Military tactical application
- Emergency recovery cable
- Mining, commercial & other risky areas

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max,Tensile Load(N)</th>
<th>Crush(N)</th>
<th>Min,Bending Radius(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
</tr>
<tr>
<td>2</td>
<td>6.5</td>
<td>38</td>
<td>200</td>
<td>DX20</td>
<td>DX20</td>
</tr>
<tr>
<td>4</td>
<td>7.0</td>
<td>45</td>
<td>200</td>
<td>DX20</td>
<td>DX20</td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-Mode(9/125)</td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**DESCRIPTION**

- Dry Core Cable is an optical fiber cable offering the competitive cost by reducing the volume & weight for easier cable laying & installation, as the cable is manufactured not using the jelly compound filler on the contrary with the loose tube type optical fiber cable.
- Tensile Load & compression characteristics are enhanced by inserting two steel wires or FRP, offering protection for optical fiber & tight buffer from physical impact from outside with the gap provided inside the cable thereby resulting in excellent optical & mechanical characteristics.
- Variety of cable types is available depending on the number of cores of optical fiber cable & installing location.

**FEATURES**

- Applicable for conduit & aerial installation
- Use with both optical fiber & tight buffer available
- Easy connection of optical fiber connector
- Excellent mechanical & optical characteristics
- Coating materials: Flame retardant PVC, PU, LSZH & etc.
- Operating Temperature Range: −40~70℃

**APPLICATIONS**

- Conduit, Duct, Aerial Laying
- Luxury Condominium & Common Housing (FTTH)
- Office Buildings, Government Offices
- CATV, Internet cafe

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Class</th>
<th>Type</th>
<th>Out Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Max. Tensile Load (kg·f)</th>
<th>Min. Bending Radius (mm)</th>
<th>Installation</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangle</td>
<td>2~12</td>
<td>F</td>
<td></td>
<td>3(H)×6(W)</td>
<td>28</td>
<td>150</td>
<td>D×20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circle</td>
<td>2</td>
<td>TBF</td>
<td></td>
<td>4(H)×8(W)</td>
<td>48</td>
<td>150</td>
<td>D×20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circle</td>
<td>2~12</td>
<td>F</td>
<td></td>
<td>7.0</td>
<td>53</td>
<td>47</td>
<td>D×10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circle</td>
<td>2~4</td>
<td>TBF</td>
<td></td>
<td>6.3</td>
<td>47</td>
<td>47</td>
<td>D×10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fig-8 Type</td>
<td>2~12</td>
<td>TBF</td>
<td></td>
<td>7.7(H)×2.7(W)</td>
<td>25</td>
<td>50</td>
<td>D×10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fig-8 Type</td>
<td>2~12</td>
<td>TBF</td>
<td></td>
<td>11.0(H)×7.5(W)</td>
<td>50</td>
<td>50</td>
<td>D×10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPTICAL ATTENUATION**

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Mode(9/125)</td>
<td></td>
<td></td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.350</td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.0</td>
<td>≤1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.5</td>
<td>≤1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.*
SPECIALITY OPTICAL PATCH CORD

DESCRIPTION

- Specialty Optical Fiber Jumper Cable is designed to suit the applications under vulnerable environments & special purpose applications considering the mechanical & environmental conditions.
- The optical fiber cable is provided complete with special connector arrangement on both ends of cable for the ease of cable laying convenience & connections at emergency situations.

FEATURES

- Connection of specialty optical fiber connector of 1~4 core cables
- Connector construction of protective cover connecting section
- Ease of handling with compact & light weight
- Tubing with Aluminum or Stainless Steel provided with diverse connector connection availability
- Use of cable moving bobbin for easy moving for emergency application
- Coating Materials : Flame retardant PVC, PU, LSZH
- Operating Temperature Range : −40~70°C

APPLICATIONS

- For emergency area, national disaster area & military applications
- For optical fiber cable assembly
- Communication terminals or connection between equipments

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
<th>No. of Cores</th>
<th>Out Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Max. Tensile Load (kg·f)</th>
<th>Min. Bending Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rectangle</td>
<td>4</td>
<td>TBF</td>
<td>3(H)×6(W)</td>
<td>25</td>
<td>150</td>
<td>D×20</td>
</tr>
<tr>
<td>Circle</td>
<td>4</td>
<td>TBF</td>
<td>4(H)×8(W)</td>
<td>48</td>
<td>150</td>
<td>D×10</td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Item</th>
<th>Water proofing Test (10m)</th>
<th>Contact Test (500)</th>
<th>Connecting Attenuation</th>
<th>Temperature Characteristic</th>
<th>Salt Spray Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>pass</td>
<td>pass</td>
<td>Max. 1.0</td>
<td>Max. 1.5</td>
<td>Good</td>
</tr>
</tbody>
</table>

- Water Proofing Test : 5 min. test on the receptacle & plug sprayed with water from 1.3m distance
- Temperature Test Condition : 5 routines under 47°C for 30min. / −40°C for 30min (Total 6hours)
- Salt Test : Test inside the Temperature Chamber for 48hours (Density: 5%, ph 6.8, Temperature: −35°C, Spray Liquid : 2.4ml/h)

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
EMERGENCY REPAIRING CABLE

DESCRIPTION
- Emergency Recovery Optical Fiber Cable is designed to conveniently install at the cable laying locations where the urgent connections are required prior to the normal recovery, by simply coiling on a bobbin after connecting the common connectors at the both ends of optical fiber cables.
- The optical fiber cable is of rectangular dry core construction, provided with strong withstanding performance against the external environmental changes and superior mechanical characteristic.
- The cable is guaranteed with in outstanding tensile strength, flexibility, torsion characteristics & long term reliability meeting the application purpose of using under emergency situations.

FEATURES
- Excellent tensile strength & flexibility
- Use of bobbin for ease of cable laying & rewinding
- Connection with variety of connectors available
- Coating materials : Flame retardant PVC, LSZH, PU & etc.
- Operating Temperature Range : –40~70℃

APPLICATIONS
- For Emergency Recovery, LAN
- Urgent temporary communication system
- For elevator application
- Emergency horizontal & vertical cable laying
- For tactical military operations

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>Class</th>
<th>Out Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Max. Tensile Load (kg·f)</th>
<th>Min. Bending Radius (mm)</th>
<th>Installation</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Cores</td>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rectangle</td>
<td>2~12</td>
<td>F</td>
<td>3(H)×6(W)</td>
<td>28</td>
<td>150</td>
<td>D×20</td>
<td>D×20</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TBF</td>
<td>4(H)×8(W)</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2~12</td>
<td>F</td>
<td>7.0</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2~4</td>
<td>TBF</td>
<td>6.3</td>
<td>47</td>
<td></td>
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</tr>
<tr>
<td>Circle</td>
<td>2~12</td>
<td>F</td>
<td>7.0</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2~4</td>
<td>TBF</td>
<td>6.3</td>
<td>47</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Mode (9/125)</td>
<td>≤0.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.0</td>
<td>≤1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 62.5/125</td>
<td>≤3.5</td>
<td>≤1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
HYBRID CABLE (2C copper + 3C optical fiber)

DESCRIPTION
- Access control systems
- Airports
- Auto and storage lots
- Bridges
- CCTV video surveillance
- Commercial aerospace

CROSS SECTION

FEATURES & APPLICATIONS
- Connectivity environment: Hybrid Fiber Optic/Electrical

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB/(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range (℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F</td>
<td>13±0.3</td>
<td>180</td>
<td>1,400</td>
<td>Cable Dia*20</td>
<td>−40~−470</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*15</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
HYBRID CABLE (3C cooper+4C optical fiber)

DESCRIPTION
- Access Control Systems
- Airports
- Auto and Storage Lots
- Bridges
- CCTV Video Surveillance
- Commercial Aerospace

CROSS SECTION

FEATURES & APPLICATIONS
- Connectivity Environment: HYBRID FIBER
- OPTIC/ELECTRICAL

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ηs/km²), Cut-off wavelength ≤ 1260nm
- Multi mode @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
50/125μm(OM2, OM3, OM4), 62.5/125μm(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>3C cooper+4F Fiber</td>
<td>17.0±0.5</td>
<td>340</td>
<td>3.000</td>
<td>Cable Dia*150</td>
<td>Cable Dia*10</td>
</tr>
</tbody>
</table>

| Electric Power    | Copper wire         | IEC60364 Stranded wire | - 3ea, 0.67/7, 2.5mm² | - Conductor resistance : 7.41Ω/km, 450/750V |
|                   | Sheath              | material             | - Halogen Free Reraedant Polyolefin |
|                   |                     | Diameter             | - 3.5 ± 0.2mm          |

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
FTTX DROP CABLE (ROUND Buffer Type)

DESCRIPTION
- Designed to allow the mixed use of single mode & multimode optical fiber cables together within the same cabling.
- Allow using maximum 6 cores of optical fiber or tight buffer cables, inserted with aramid yarn for excellent mechanical&environmental characteristics.

FEATURES
- Easy connection of optical fiber connectors
- Outstanding workability for vertical & horizontal installations
- Use of complex type cable available (Single mode, Multimode)
- Ease of handling with light weight & thin diameter
- Coating materials: Flame retardant PVC, PU, LSZH&etc. (Certified with UL-OPNR, GOST)
- Operating Temperature Range: -20~70°C

APPLICATIONS
- Indoor/Outdoor
- Condominium
- LAN
- Integrated residential network (Internet, Home Automation System, Communication Training & etc.)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Class</th>
<th>No. of Cores</th>
<th>Type</th>
<th>Out Diameter (mm)</th>
<th>Weight(kg/km)</th>
<th>Max. Tensile Load(kg·f)</th>
<th>Min. Bending Radius(mm)</th>
<th>Installation</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TBF(Φ0.9)</td>
<td>3.0</td>
<td>8</td>
<td></td>
<td>66</td>
<td>DX20</td>
<td>DX10</td>
</tr>
<tr>
<td>2~4</td>
<td>2~4</td>
<td>TBF(Φ0.53)</td>
<td>3.6</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>SM2</td>
<td>3.8</td>
<td>11</td>
<td></td>
<td>66</td>
<td>DX20</td>
<td>DX10</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>SM4, MM2</td>
<td>5.0</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-Mode(9/125)</td>
<td>≤0.40</td>
<td>≤1310nm</td>
<td>≤0.30</td>
<td>≤0.350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62.5/125</td>
<td>≤3.50</td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
FTTX DROP CABLE (ROUND Fiber Type)

DESCRIPTION
- Indoor/outdoor tight-buffered cable design for use installations requiring a flame-retardant, low-smoke and zero-halogen cable.

CROSS SECTION

FEATURES & APPLICATIONS
- Zero-halogen construction meets IEC 60754-2
- Meets low-smoke requirements of UL-1685,
- OFN-LS and IEC 61034-2 Flame-retardant per the requirements of IEC 60332-3-24 and UL 1685,
- Suitable for indoor or outdoor applications
- Jacket is UV, fungus and moisture resistant

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.30 dB/km
- PMD ≤ 0.2dB(ps/km)⁴/₂, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 dB/km
- 50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max. Tensile Load(N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>1F</td>
<td>3.0±0.1</td>
<td>8.5</td>
<td>800</td>
<td>Cable Dia*15</td>
<td>Cable Dia*10</td>
</tr>
<tr>
<td>2F</td>
<td>3.0±0.1</td>
<td>7.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4F</td>
<td>3.0±0.1</td>
<td>8.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6F</td>
<td>3.2±0.1</td>
<td>8.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1F : buffer type, 2/4/6F : coloring fiber type.
Jacket material : Flame retardant polyurethan.
# Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**DESCRIPTION**

- Highly flexible & light weight
- Ease of peeling enabling fast connection
- Coating material: flame retardant PVC, PU, LSZH etc.
- Operating temperature range: -20~70℃

**CROSS SECTION**

- Buffered fiber
- Inner jacket (indoor)
- Strength member
- Outer jacket

**FEATURES & APPLICATIONS**

- Patch cords
- LAN distribution
- Outdoor cable

**OPTICAL SPECIFICATIONS**

- Single mode @1310nm ≤ 0.40 dB/km
  @1383nm ≤ 0.36 dB/km
  @1550nm ≤ 0.30 dB/km
  @1625nm ≤ 0.35 dB/km
- PMD ≤ 0.2dB(ps/km)
- Cut-off wavelength ≤ 1260nm
- Multi mode  @ 850nm ≤ 3.5 dB/km
  @1300nm ≤ 1.5 db/km
- 50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation</td>
<td>Operation</td>
</tr>
<tr>
<td>1F</td>
<td>4.6±0.2</td>
<td>23</td>
<td>800</td>
<td>Cable Dia*10</td>
<td>-20~+70</td>
</tr>
<tr>
<td>2F</td>
<td>5.0±0.2</td>
<td>23</td>
<td>1,000</td>
<td>Cable Dia*15</td>
<td>-20~+70</td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**OPTICAL FIBER CABLES**

**FTTX DROP CABLE** (Fig-8 Buffer Type)

**DESCRIPTION**
- An outdoor type manufactured for ease of cabling between the electric poles or leading into building from pole, manufactured with the self standing, “8” shape construction.
- Designed to have the appropriate tensile load considering the cable laying stress and stable Bending characteristic.
- Offering excellent mechanical & environmental characteristics that may occur after the cable laying works considering the stress & impact from outside and weather change.

**FEATURES**
- Light weight, compact & ease of handling
- Economical construction for aerial cabling application
- Outstanding mechanical & environmental characteristics
- Coating materials : Flame retardant PVC, PU, LSZH & etc.
- Operating Temperature Range: -40~70℃

**APPLICATIONS**
- LAN
- Subscriber network
- CATV, PC Cafe

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No. of Cores</th>
<th>Outer Diameter (Height x Width)</th>
<th>Weight(kg/km)</th>
<th>Max. Tensile Load(kg · f)</th>
<th>Min. Bending Radius(mm)</th>
<th>Installation</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4.7 X 8</td>
<td>27</td>
<td>80</td>
<td>≥D×20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4.7 X 8</td>
<td>28</td>
<td>80</td>
<td>≥D×10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>5.5 X 9</td>
<td>29</td>
<td>80</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPTICAL ATTENUATION**

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Mode(9/125)</td>
<td></td>
<td>≤0.40</td>
<td></td>
<td>≤1310</td>
<td>≤0.30</td>
<td>≤0.350</td>
</tr>
<tr>
<td>Multimode 50.0/125</td>
<td>≤3.00</td>
<td></td>
<td>≤1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62.5/125</td>
<td>≤3.50</td>
<td></td>
<td>≤1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**FTTX DROP CABLE** (Indoor, Rectangle Fiber Type)

**DESCRIPTION**
- Tensile load & compression characteristics are enhanced by inserting two FRP or ARP, offering protection for optical fiber from physical impact outside with the gap provided inside the cable there by resulting in excellent optical & mechanical characteristics.

**FEATURES**
- Use for indoor connecting
- Small size
- Light weight and cost efficient
- Structure used for pushing install

**APPLICATIONS**
- Conduit, duct laying
- CATV, FTTH
- Office building, government office

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Out. Diameter (mm)</th>
<th>Weight(kg/km)</th>
<th>Min. Bending Radius(mm)</th>
<th>20.0kg.f (200N)</th>
<th>Crush force (N/100mm)</th>
<th>Temperature cycling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Dropcable</td>
<td>1F</td>
<td>[W x H] 20mm x 31mm</td>
<td>8.5kg/km (NET)</td>
<td>15mm; 10 l/nm</td>
<td>200kgf (200N)</td>
<td>600</td>
<td>-20℃~+70℃</td>
</tr>
</tbody>
</table>

Standard color: Blue  Optical Fiber: G.657A2

**OPTICAL ATTENUATION**

<table>
<thead>
<tr>
<th>Type/Wavelength(nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMF(G.657A2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attenuation (dB/km)</td>
<td>≤0.350</td>
<td>≤0.350</td>
<td>≤0.215</td>
<td>≤0.350</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.*
### FTTX DROP CABLE (Outdoor, Rectangle Fiber Type)

#### DESCRIPTION
- Tensile load & compression characteristics are enhanced by inserting two steel wires of FRP, offering protection for optical fiber from physical impact from outside with the gap provided inside the cable thereby resulting in excellent optical & mechanical characteristics.
- Possible to pushing wiring without using lead wire because of low friction in cable jacket.

#### FEATURES
- Applicable for conduit & aerial installation
- Excellent mechanical & optical characteristics
- Light weight and cost efficient

#### APPLICATIONS
- Conduit, duct, aerial laying
- Office buildings, Government offices
- CATV, Internet cafe

#### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Item</th>
<th>No. of Cores</th>
<th>Out Diameter (mm)</th>
<th>Weight(kg/km)</th>
<th>Min. Bending Radius(mm)</th>
<th>20.0kgf (200N)</th>
<th>Crush force (N/100mm)</th>
<th>Temperature cycling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop cable</td>
<td>1F,2F</td>
<td>2.3mm x 5.3mm</td>
<td>25kg/km</td>
<td>15mm, 10 turn</td>
<td>130kgf (1,300N)</td>
<td>600</td>
<td>-20℃~+70℃</td>
</tr>
</tbody>
</table>

*Standard color: Blue, Orange, Green, Brown, Gray, White, Red, Black, Pink, Aqua. Optical Fiber: G657 A/B*

#### OPTICAL ATTENUATION

<table>
<thead>
<tr>
<th>Type/Wavelength (nm)</th>
<th>850</th>
<th>1300</th>
<th>1310</th>
<th>1383</th>
<th>1550</th>
<th>1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation (dB/km)</td>
<td>SMF(G.657A2)</td>
<td>≤0.350</td>
<td>≤0.350</td>
<td>≤0.215</td>
<td>≤0.350</td>
<td></td>
</tr>
</tbody>
</table>

*Above cable construction & feature may be revised without prior notice to implement the quality improvement.*
AIR BLOWN FIBER

DESCRIPTION
- Designed for air blown in stream
- Stripe carving pattern for easy blow in

FEATURES & APPLICATIONS
- Installation for pipe and building
- FTTH and FTTX Solution
- Light weight and easy to connect

CROSS SECTION

OPTICAL SPECIFICATIONS
- Single mode @1310nm ≤ 0.38 dB/km
  @1383nm ≤ 0.38 dB/km
  @1550nm ≤ 0.25 dB/km
  @1625nm ≤ 0.28 dB/km
- PMD ≤ 0.2dB(ps/km)^1/2, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 dB/km
- 50/125㎛(OM2, OM3, OM4), 62.5/125㎛(OM1)

CHARACTERISTICS

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net. kg/km)</th>
<th>Max. Tensile Load (N)</th>
<th>Min. Bending Radius (mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1~4F</td>
<td>1.6±0.1</td>
<td>2.5</td>
<td>30</td>
<td>Cable Dia*15</td>
<td>−10~+70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cable Dia*10</td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**AIR BLOWN MICRO CABLE (ABMC)**

**DESCRIPTION**
- Indoor/outdoor tight-buffered design allows cables to be installed in intra-building backbone and inter-building campus locations without costly transitions between cable types.
- Design allows multi fiber sub cables to be routed to multiple locations such as wiring racks and sets.

**FEATURES & APPLICATIONS**
- High performance components and construction UL Listed in accordance with NEC sections 770.179(b) for use in vertical runs in building riser shafts or from floor to floor.
- Cable materials are indoor/outdoor: UV, water and fungus resistant.
- Operating temperature Range: -40~+70℃

**OPTICAL SPECIFICATIONS**
- Single mode @1310nm ≤ 0.36 dB/km
  @1383nm ≤ 0.35 dB/km
  @1550nm ≤ 0.22 dB/km
  @1625nm ≤ 0.25 dB/km
  PMD ≤ 0.2dB(ps/km)½, Cut-off wavelength ≤ 1260nm
- Multi mode @850nm ≤ 3.0 dB/km
  @1300nm ≤ 1.0 db/km
  50/125㎛ (OM2, OM3, OM4), 62.5/125㎛ (OM1)

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12F</td>
<td>6.7±0.2</td>
<td>36</td>
<td>1,000</td>
<td>Cable Dia*15</td>
<td>-40~+70</td>
</tr>
<tr>
<td>24F</td>
<td></td>
<td>37</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36F</td>
<td></td>
<td>38</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48F</td>
<td></td>
<td>39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>72F</td>
<td></td>
<td>47</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#Above cable construction & feature may be revised without prior notice to implement the quality improvement.
**DESCRIPTION**

- Indoor/outdoor tight-bound tight-buffered design allows cables to be installed in intra-building backbone and inter-building campus locations without costly transitions between cable types.
- Ideal configuration for a single termination point requiring multiple fibers.

**FEATURES & APPLICATIONS**

- High performance components and construction.
- Cable materials are indoor/outdoor – UL – listed OFNR and UV, water and fungus resistant.
- Operating Temperature Range: \(-20\sim+70^\circ\)C.
- Helically stranded core for greater flexibility and mechanical protection of the optical fibers.
- High strength-to-weight ratio.

**OPTICAL SPECIFICATIONS**

- Single mode @1310nm \(\leq 0.40\)dB/km
  @1383nm \(\leq 0.36\)dB/km
  @1550nm \(\leq 0.30\)dB/km
  @1625nm \(\leq 0.35\)dB/km
- PMD \(\leq 0.2\)dB(ps/km\(^{1/2}\)), Cut-off wavelength \(\leq 1260\)nm.
- Multi mode @850nm \(\leq 3.5\)dB/km
  @1300nm \(\leq 1.5\)db/km
  50/125μm(OM2, OM3, OM4), 62.5/125μm(OM1).

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>No.of Core</th>
<th>Outer Diameter (mm)</th>
<th>Weight (Net, kg/km)</th>
<th>Max.Tensile Load(N)</th>
<th>Min.Bending Radius(mm)</th>
<th>Temperature Range(°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24F</td>
<td>12.0±1.0</td>
<td>125</td>
<td>60</td>
<td>Cable Dia*20</td>
<td>Cable Dia*15</td>
</tr>
</tbody>
</table>
PLC SPLITTER (Fan-Out Type)

PLC (planar lightwave circuit) splitter is fabricated by using silica optical waveguide technology. It features wide operating wavelength range, good channel-to-channel uniformity, high reliability and small size, and is widely used in PON networks to realize optical signal power management. We provide a whole series of 1 x N splitters that are tailored for specific applications. All products meet Telcordia 1209 and 1221 reliability requirements and are certified by TLC for network development requirement.

GOC can provide customized designs to meet specialized feature applications, and also offers modulars assemblies that integrated other components to form a full function module.

APPLICATIONS

- FTTX Solutions
- Passive Optical Network (PON)

FURCATION DIMENSION (mm)

<table>
<thead>
<tr>
<th>Dimension (nm)</th>
<th>1x2</th>
<th>1x4</th>
<th>1x8</th>
<th>1x16</th>
<th>1x32</th>
<th>1x64</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>40</td>
<td>40</td>
<td>50</td>
<td>50</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>W</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Parameter for 1xN PLC Splitter (Without Connector)

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>1x2</th>
<th>1x4</th>
<th>1x8</th>
<th>1x16</th>
<th>1x32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (dB)</td>
<td>≤3.7</td>
<td>≤7.2</td>
<td>≤10.5</td>
<td>≤13.5</td>
<td>≤16.5</td>
</tr>
<tr>
<td>Uniformity (dB)</td>
<td>≤0.6</td>
<td>≤0.6</td>
<td>≤0.8</td>
<td>≤1.2</td>
<td>≤1.7</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>≤0.2</td>
<td>≤0.3</td>
<td>≤0.3</td>
<td>≤0.3</td>
<td></td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>≥55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Directivity (dB)</td>
<td></td>
<td></td>
<td></td>
<td>≥55</td>
<td></td>
</tr>
<tr>
<td>Operating Wavelength (nm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature (℃)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity Range</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1260 ~ 1360nm & 1450 ~ 1650nm

-40℃ ~ 85℃

5% to 85% RH
SPLITTER (Fan-Out Type)

### Parameter for 2xN PLC Splitter (Without Connector)

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>2x2</th>
<th>2x4</th>
<th>2x8</th>
<th>2x16</th>
<th>2x32</th>
<th>2x64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss(dB)</td>
<td>≤3.9</td>
<td>≤7.5</td>
<td>≤10.8</td>
<td>≤14.1</td>
<td>≤17.4</td>
<td>≤21</td>
</tr>
<tr>
<td>Uniformity(dB)</td>
<td>≤0.8</td>
<td>≤1.2</td>
<td>≤1.5</td>
<td>≤2.0</td>
<td>≤2.5</td>
<td>≤2.5</td>
</tr>
<tr>
<td>PDL(dB)</td>
<td>≤0.2</td>
<td>≤0.3</td>
<td>≤0.4</td>
<td>≤0.4</td>
<td>≤0.4</td>
<td>≤0.4</td>
</tr>
</tbody>
</table>
PLC (planar lightwave circuit) splitter is fabricated by using silica optical waveguide technology. It features wide operating wavelength range, good channel-to-channel uniformity, high reliability and small size, and is widely used in PON networks to realize optical signal power management. We provide a whole series of 1 x N and 2 x N splitters that are tailored for specific applications. All products meet Telcordia 1209 and 1221 reliability requirements and are certified by TLC for network development requirement.

GOC can provide customized designs to meet specialized feature applications, and also offers modular assemblies that integrated other components to form a full function module.

**APPLICATIONS**

- FTTX Solutions
- Passive Optical Network (PON)

**Parameter for 1xN PLC Splitter (Without Connector)**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>1x2</th>
<th>1x4</th>
<th>1x8</th>
<th>1x16</th>
<th>1x32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss(dB)</td>
<td>≤3.7</td>
<td>≤7.2</td>
<td>≤10.5</td>
<td>≤13.5</td>
<td>≤16.5</td>
</tr>
<tr>
<td>Uniformity(dB)</td>
<td>≤0.6</td>
<td>≤0.6</td>
<td>≤0.8</td>
<td>≤1.2</td>
<td>≤1.7</td>
</tr>
<tr>
<td>PDL(dB)</td>
<td>≤0.2</td>
<td>≤0.3</td>
<td>≤0.3</td>
<td>≤0.3</td>
<td></td>
</tr>
<tr>
<td>Return Loss(dB)</td>
<td></td>
<td></td>
<td></td>
<td>≥55</td>
<td></td>
</tr>
<tr>
<td>Directivity(dB)</td>
<td></td>
<td></td>
<td></td>
<td>≥55</td>
<td></td>
</tr>
<tr>
<td>Operating Wavelength(nm)</td>
<td>1260 ~ 1360nm &amp; 1450 ~ 1650nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature(℃)</td>
<td>-40℃ ~ 85℃</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity Range</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5% to 85% RH</td>
</tr>
</tbody>
</table>

**Dimension for PLC Bar**

<table>
<thead>
<tr>
<th>Dimension(nm)</th>
<th>1x2</th>
<th>1x4</th>
<th>1x8</th>
<th>1x16</th>
<th>1x32</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>80</td>
</tr>
<tr>
<td>W</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

**Schematic Diagram**
**BOX TYPE PLC SPLITTER 1(2)×N**

PLC (planar lightwave circuit) splitter is fabricated by using silica optical waveguide technology. It features wide operating wavelength range, good channel-to-channel uniformity, high reliability and small size, and is widely used in PON networks to realize optical signal power management. We provide a whole series of 1 × N and 2 × N splitters that are tailored for specific applications. All products meet Telcordia 1209 and 1221 reliability requirements and are certified by TLC for network development requirement.

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### APPLICATIONS

- FTTX Solutions
- Passive Optical Network (PON)

### TABLE

<table>
<thead>
<tr>
<th>PLC-BOX</th>
<th>XXX</th>
<th>XXX</th>
<th>X</th>
<th>XX</th>
<th>XX</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input&amp;Output</td>
<td>Input Tube Type</td>
<td>L1 length</td>
<td>L2 length</td>
<td>Input Connector</td>
<td>Output Connector</td>
<td></td>
</tr>
<tr>
<td>Count</td>
<td>9=90mm Tight buffer</td>
<td>12=1.2m</td>
<td>12=1.2m</td>
<td>0=None</td>
<td>0=None</td>
<td></td>
</tr>
<tr>
<td>1(2)=1×4</td>
<td>Fiber</td>
<td>15=1.5m</td>
<td>15=1.5m</td>
<td>FC/PC</td>
<td>FC/PC</td>
<td></td>
</tr>
<tr>
<td>......</td>
<td>2=Ø2.0mm Fiber</td>
<td>150=15m</td>
<td>150=15m</td>
<td>AFC=FC/APC</td>
<td>AFC=FC/APC</td>
<td></td>
</tr>
<tr>
<td>208=2×8</td>
<td>3=Ø3.0mm Fiber</td>
<td>......</td>
<td>......</td>
<td>SC/PC</td>
<td>SC/PC</td>
<td></td>
</tr>
<tr>
<td>......</td>
<td>......</td>
<td>......</td>
<td>......</td>
<td>ASC=SC/APC</td>
<td>ASC=SC/APC</td>
<td></td>
</tr>
<tr>
<td>......</td>
<td>Others</td>
<td>Others</td>
<td>Others</td>
<td>Others</td>
<td>Others</td>
<td></td>
</tr>
</tbody>
</table>
INTRODUCTION

The Field Installable Connector is cost-effective, and is designed for reuse, ease of installation, optical attenuation from 1dB to 20dB, and Fiber Bragg Grating (FBG) for fiber monitoring system. FIC requires no field polishing or epoxy, so no heat cure devices or special toolings are needed to terminate the fiber. It takes about one to two minutes per fiber to install a connector out in the field.

Specifications for GSC and GLC

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SM : SC/PC, LC/PC</th>
<th>MM : SC/PC, LC/PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Type</td>
<td>Single Mode : 9/125㎛</td>
<td>Multi Mode : 50/125㎛, 62.5/125㎛</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>Max. ≤0.5 dB</td>
<td>Max. ≤0.5 dB</td>
</tr>
<tr>
<td></td>
<td>Avg. ≤0.3 dB</td>
<td>Avg. ≤0.3 dB</td>
</tr>
<tr>
<td>Reflectance</td>
<td>≥ 40–50 dB(PC/UPC), ≥ 50–60 dB(APC)</td>
<td></td>
</tr>
<tr>
<td>Operational Temperature</td>
<td>– 40 ~ 75℃</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>– 40 ~ 80℃</td>
<td></td>
</tr>
<tr>
<td>Tensile Load</td>
<td>3N Load ≤ 0.2 dB Change(0.9mm cable)</td>
<td>30N Load ≤ 0.2 dB Change(2.0/3.0mm cable)</td>
</tr>
</tbody>
</table>
FEATURES

- Design for ease of use with one hand
- Safe and easy installation and removal of each types the optical connectors
- Excellent performance in areas of densely populated connections
- Accident Prevention from worker’s carelessness
- High Reliability and Stability

PRODUCT LIST

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-1</td>
<td>SC Type only</td>
</tr>
<tr>
<td>CP-2</td>
<td>SC/LC Type</td>
</tr>
</tbody>
</table>
FIBER OPTIC CABLE CLAMP

FEATURES

▶ Used to support messenger drop cable between the pole and house
▶ Accepts 3.0mm diameter fiber optic drop cable
▶ Suitable for usage with most one and two pair drop cables
▶ Stainless steel tail wire, plastic (PVC) body
▶ RoHS compliant
▶ Mechanical (tensile) strength exceeds 50kg
▶ Patented

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>220mm(L) x 20mm(H) x 40mm(W)</td>
</tr>
<tr>
<td>Bending Radius Allowance</td>
<td>≥25mm</td>
</tr>
<tr>
<td>Tensile Load</td>
<td>50kgf</td>
</tr>
<tr>
<td>Material for Tail wire</td>
<td>STS-304</td>
</tr>
<tr>
<td>Material for Body</td>
<td>PVC</td>
</tr>
<tr>
<td>Operational Temperature</td>
<td>-30 ~ 40°C</td>
</tr>
</tbody>
</table>
**ACCESS TERMINAL BOX**

**INTRODUCTION**

GOC has designed Access Terminal Box (ATB) for protecting and terminating fiber optic drop cable and/or patch cords in the FTTH Networks. ATB is compact and cost-effective, and being used for the indoor closure. This ATB accepts the field-installable connector, fusion splice, 1×4 splitter and 1×4 coupler for termination.

**FEATURES**

- Compact design for installation on the wall as well as inside the terminal panel.
- Two screw mounting holes can be compatible with the size of the wall switch and telephone box.
- This box protects drop cable and other related optical fiber connection from accidental damage.
- Two inner holders retain up to two fusion splice sleeves or splitters/couplers.
- Inner storage area allows the minimum bend radius to prevent micro bends and attenuation.
- Two adapter slots allows up to two SC Type duplex adapters.
- Removable cover is designed for easy access.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension(mm)</td>
<td>117×88×29</td>
</tr>
<tr>
<td>Weight(g)</td>
<td>75</td>
</tr>
<tr>
<td>Cable Count</td>
<td>1</td>
</tr>
<tr>
<td>Adapte</td>
<td>2 Duplex SC Adapter max.</td>
</tr>
<tr>
<td>Connection Type</td>
<td>Fusion splice, mechanical splice or field assembly connector</td>
</tr>
</tbody>
</table>
**OPTICAL PATCH CORD**

**FEATURES**
- Low insertion loss
- High return loss
- Various connector type available
- 100% in-house tested

**APPLICATIONS**
- Fiber optic telecommunications
- Optical network equipments
- FTTH
- CATV, IPTV
- High speed transmission system

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Fiber Mode</th>
<th>Single Mode</th>
<th>Multi Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>FC, SC, ST, LC, MU</td>
<td>FC, SC, ST, LC, MU</td>
</tr>
<tr>
<td>Ext. Diameter (mm)</td>
<td>0.9, 2.0, 3.0</td>
<td>0.9, 2.0, 3.0</td>
</tr>
<tr>
<td>Ferrule Type</td>
<td>PC, APC</td>
<td>PC</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>≤ 0.3, ≤ 0.3</td>
<td>≤ 0.3</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>≥ 55, ≥ 60</td>
<td>–</td>
</tr>
<tr>
<td>Operation Temperature(℃)</td>
<td>– 40 ~75</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature(℃)</td>
<td>– 55 ~ 85</td>
<td></td>
</tr>
</tbody>
</table>
OFFICE & PLANTS

Head Office & South Korea Plant
10. Cheomdan venture-ro 60beon-gil, Buk-gu, Gwangju, 500-470, South Korea
Tel +82-62-973-6114
Fax +82-62-973-6116

Indonesia Plant Office
40258 Indonesia
Tel +62-22-520-6510
Fax +62-22-520-4010

Anyang Sales Office (South Korea)
#625 Pyeongchon Sharmang Officetel, 1598 Gwangyang-dong, Dongan-Gu, Anyang-cith,
Gyeonggi-do 431-061, South Korea
Tel +82-31-383-6115

Jakarta Sales Office (Indonesia)
Grand Panglima Polim No.89, JL. Panglima Polim 16-17,
Jakarta Selatan, 12160 Indonesia
Tel +62-21-7278-9310

Hangzhou GOT Optical Communication Co., Ltd.
608# Golf Road, Dongzhou Town, Fuyang City,
Zhejiang China
Tel +86-571-63167319
Fax +86-571-63373008
E-mail cdi@glights.com