Company Profile

Shenzhen Kaishengda Cable Co., Ltd. is one of the biggest manufacturer of fiber optic cable in China and has more than 10 years manufacturing and selling experience, providing superior professional fiber optic cables to worldwide customers.

We specialize in R&D, manufacture and sales of all kinds of optical fiber cables, including ADSS, OPGW, OPPC, fiber optic unit, optical fiber ribbon and etc. Until now, we have our full range of optical fiber cable to EU, Canada, Korea, Malaysia, Australia, Thailand, Vietnam, Zambia, Colombia, Nepal, Philipines, Bulgaria, etc.

The company has achieved certificates of Quality Management System ISO9001, Environment Management System ISO14001, Health and Safety Management System OHSAS18001 and SGS.

Our target is to be the most highly regarded and successful fiber optic cable company in the world and brings convenience to people.

www.ksdfiber cable.com

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Optical Fibers Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ITU-TG652</strong></td>
<td></td>
</tr>
<tr>
<td>Cladding diameter</td>
<td>125±0.5um</td>
</tr>
<tr>
<td>Mode field diameter</td>
<td></td>
</tr>
<tr>
<td>At 1310nm</td>
<td>From 9.2±0.4um</td>
</tr>
<tr>
<td>Attenuation</td>
<td></td>
</tr>
<tr>
<td>At 1310nm</td>
<td>0.36dB/km max.</td>
</tr>
<tr>
<td>At 1550nm</td>
<td>0.22dB/km max.</td>
</tr>
<tr>
<td>Chromatic dispersion</td>
<td></td>
</tr>
<tr>
<td>At 1310nm</td>
<td>2.8ps/nm.km</td>
</tr>
<tr>
<td>From 1285 to 1330nm</td>
<td>3.5ps/nm.km</td>
</tr>
<tr>
<td>At 1550nm</td>
<td>18ps/nm.km</td>
</tr>
<tr>
<td>From 1525 to 1575nm</td>
<td>20ps/nm.km</td>
</tr>
<tr>
<td>PMD (Polarisation mode dispersion)</td>
<td>≤0.2ps/√km</td>
</tr>
<tr>
<td><strong>ITU-TG655</strong></td>
<td></td>
</tr>
<tr>
<td>Cladding diameter</td>
<td>125±1.0um</td>
</tr>
<tr>
<td>Mode field diameter</td>
<td></td>
</tr>
<tr>
<td>At 1550nm</td>
<td>From 9.2±10.0um</td>
</tr>
<tr>
<td>Attenuation</td>
<td></td>
</tr>
<tr>
<td>At 1550nm</td>
<td>0.25dB/km max.</td>
</tr>
<tr>
<td>At 1625nm</td>
<td>0.27dB/km max.</td>
</tr>
<tr>
<td>Chromatic dispersion</td>
<td></td>
</tr>
<tr>
<td>From 1530 to 1565nm</td>
<td>From 2.0 to 6.15ps/NM.km</td>
</tr>
<tr>
<td>From 1565 to 1625nm</td>
<td>From 4.5 to 12.4ps/NM.km</td>
</tr>
<tr>
<td>PMD (Polarisation mode dispersion)</td>
<td>≤0.5ps/√km</td>
</tr>
</tbody>
</table>

**Noted:**
Various kind of Single mode fiber or multimode fiber is available upon customer request.
All-dielectric Self-supporting Aerial Installation Cable —ADSS

Description:
Mini Span ADSS Fiber optic cable is ideal for installation in distribution as well as transmission environments, even when live-line installations are required. As its name indicates, there is no support or messenger wire required, so installation is achieved in a single pass.

Application:
Self-support Aerial installation

Characteristic:
1. Suitable for use on distribution and high voltage transmission lines with mini spans or self-supporting installation for telecommunication.
2. Track-Resistant outer jacket available for the high voltage line where space potentials up to 35kV.
3. Gel-Filled buffer tubes are S-Z stranded.
4. Instead of Aramid yarn or glass yarn, there is no support or messenger wire required. Aramid yarn is used as the strength member to assure the tensile and strain performance.
5. For mini span (100-150) the fiber counts from 2-72 fibers.

Typical Technical Parameter:

<table>
<thead>
<tr>
<th>Span (meter)</th>
<th>Weight (kg/km)</th>
<th>Diameter (mm)</th>
<th>Initial Tension (N)</th>
<th>Unload</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>12fibers</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>100</td>
<td>121</td>
<td>12.2</td>
<td>892</td>
<td>1479</td>
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<tr>
<td>200</td>
<td>125</td>
<td>12.4</td>
<td>1338</td>
<td>2043</td>
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</tr>
<tr>
<td>300</td>
<td>127</td>
<td>12.6</td>
<td>2232</td>
<td>3286</td>
<td></td>
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<tr>
<td>400</td>
<td>132</td>
<td>13.3</td>
<td>3280</td>
<td>4800</td>
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</tr>
<tr>
<td>24fibers</td>
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<td></td>
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<tr>
<td>100</td>
<td>121</td>
<td>12.2</td>
<td>904</td>
<td>1486</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>125</td>
<td>12.4</td>
<td>2261</td>
<td>3304</td>
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<tr>
<td>300</td>
<td>127</td>
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<td>3322</td>
<td>4826</td>
<td></td>
</tr>
</tbody>
</table>

Noted:
1. Only a part of ADSS cables are listed in the table. More can be produced as required.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.

Standard All-dielectric Self-supporting Fiber Optic Cable —ADSS

Description:
Aramid yarn is used as the strength member to assure the tensile and strain performance. Mainly installed at existing 220kV or lower voltage power lines. Two Jacket and stranded loose tube design.

Characteristic:
1. Two Jacket and stranded loose tube design.
2. Stable performance and compatibility with all common fiber types.
3. Instead of Aramid yarn or glass yarn, there is no support or messenger wire required. Aramid yarn is used as the strength member to assure the tensile and strain performance.
4. Mainly installed at existing 220V or lower voltage power lines.

Typical Technical Parameter:

<table>
<thead>
<tr>
<th>Span (meter)</th>
<th>Weight (kg/km)</th>
<th>Diameter (mm)</th>
<th>Unload</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>8fibers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>132</td>
<td>12.2</td>
<td>6000</td>
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<td>200</td>
<td>134</td>
<td>12.4</td>
<td>6900</td>
<td>71020</td>
</tr>
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<td>300</td>
<td>138</td>
<td>12.6</td>
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<td>84520</td>
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<td>400</td>
<td>144</td>
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<td>12020</td>
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<tr>
<td>500</td>
<td>148</td>
<td>13.3</td>
<td>12200</td>
<td>12400</td>
</tr>
<tr>
<td>600</td>
<td>152</td>
<td>13.6</td>
<td>17500</td>
<td>17852</td>
</tr>
<tr>
<td>700</td>
<td>156</td>
<td>13.9</td>
<td>21600</td>
<td>22200</td>
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<tr>
<td>800</td>
<td>160</td>
<td>14.2</td>
<td>24200</td>
<td>24320</td>
</tr>
<tr>
<td>24fibers</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>132</td>
<td>12.2</td>
<td>6000</td>
<td>6280</td>
</tr>
<tr>
<td>200</td>
<td>134</td>
<td>12.4</td>
<td>6900</td>
<td>71020</td>
</tr>
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<td>300</td>
<td>138</td>
<td>12.6</td>
<td>8200</td>
<td>84520</td>
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<tr>
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<td>12020</td>
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<tr>
<td>500</td>
<td>148</td>
<td>13.3</td>
<td>12200</td>
<td>12400</td>
</tr>
<tr>
<td>600</td>
<td>152</td>
<td>13.6</td>
<td>17500</td>
<td>17852</td>
</tr>
<tr>
<td>700</td>
<td>156</td>
<td>13.9</td>
<td>21600</td>
<td>22200</td>
</tr>
<tr>
<td>800</td>
<td>160</td>
<td>14.2</td>
<td>24200</td>
<td>24320</td>
</tr>
</tbody>
</table>

Noted:
1. Only a part of ADSS cables are listed in the table. ADSS cables with other spans can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.
Typical Designs of Central Stainless Steel Tube OPGW

Description:
The central stainless steel tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. They are the most widely used cables, their design is fully adapted to the most common electric line needs.

Characteristic:
1. High quality standards for designing, testing and producing with grade A materials available to ensure long-term reliability.
2. Engineering support supervising and providing its own line of accessories hardware.
3. Seal stainless steel tube superior protection to the fiber optical to moisture and extreme environmental conditions such as lightning.
4. To construct OPGW must cut power, resulting in greater loss, thus OPGW must be used in constructing high pressure line over 110kV.
5. Apply to the transformation of old lines.

Standards:
- ITU-T G.652: Characteristics of a single mode optical fiber
- ITU-T G.655: Characteristics of a non-zero dispersion - shifted single mode fibers optical
- EIA/TIA598 B: Col code of fiber optic cables
- IEC 60794-4-10: Aerial optical cables along electrical power lines - family specification for OPGW
- IEC 60794-1-0: Optical fiber cables - part test procedures
- IEEE1138-2009: IEEE Standard for testing and performance for optical ground wire for use on electric utility power lines
- IEC 61292: Aluminum - Clad steel wire for electrical purposes
- IEC6104: Aluminum magnesium silicon alloy wire for overhead line conductors
- IEC 61089: Round wire concentric lay overhead electrical stranded conductors

Typical design for Single Layer:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-32(40:6:4.7)</td>
<td>12</td>
<td>7.8</td>
<td>243</td>
<td>40.6</td>
<td>4.7</td>
</tr>
<tr>
<td>OPGW-42(54:0.8:4)</td>
<td>24</td>
<td>9</td>
<td>313</td>
<td>54</td>
<td>8.4</td>
</tr>
<tr>
<td>OPGW-42(43.5:10.6)</td>
<td>24</td>
<td>9</td>
<td>284</td>
<td>43.5</td>
<td>10.6</td>
</tr>
<tr>
<td>OPGW-54(55.9:17.5)</td>
<td>36</td>
<td>10.2</td>
<td>394</td>
<td>67.8</td>
<td>13.9</td>
</tr>
<tr>
<td>OPGW-61(73.7:175)</td>
<td>48</td>
<td>10.8</td>
<td>438</td>
<td>73.7</td>
<td>17.5</td>
</tr>
<tr>
<td>OPGW-61(55.1:24.5)</td>
<td>48</td>
<td>10.8</td>
<td>358</td>
<td>55.1</td>
<td>24.5</td>
</tr>
<tr>
<td>OPGW-68(80:8:21.7)</td>
<td>54</td>
<td>11.4</td>
<td>485</td>
<td>80.8</td>
<td>21.7</td>
</tr>
<tr>
<td>OPGW-75(54:5:41.7)</td>
<td>60</td>
<td>12</td>
<td>459</td>
<td>63</td>
<td>36.3</td>
</tr>
<tr>
<td>OPGW-76(54:5:41.7)</td>
<td>60</td>
<td>12</td>
<td>385</td>
<td>54.5</td>
<td>41.7</td>
</tr>
</tbody>
</table>

Typical design for Double Layer:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-96[121.7:42.2]</td>
<td>12</td>
<td>13</td>
<td>671</td>
<td>121.7</td>
<td>42.2</td>
</tr>
<tr>
<td>OPGW-127[141:0:87.9]</td>
<td>24</td>
<td>15</td>
<td>825</td>
<td>141</td>
<td>87.9</td>
</tr>
<tr>
<td>OPGW-127[77.8:128.0]</td>
<td>24</td>
<td>15</td>
<td>547</td>
<td>77.8</td>
<td>128</td>
</tr>
<tr>
<td>OPGW-145[121.0:132.2]</td>
<td>28</td>
<td>16</td>
<td>857</td>
<td>121</td>
<td>132.2</td>
</tr>
<tr>
<td>OPGW-163[138.2:183.6]</td>
<td>36</td>
<td>17</td>
<td>910</td>
<td>138.2</td>
<td>186.3</td>
</tr>
<tr>
<td>OPGW-163[99.9:213.7]</td>
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<td>17</td>
<td>694</td>
<td>99.9</td>
<td>213.7</td>
</tr>
<tr>
<td>OPGW-183[109.7:268.7]</td>
<td>48</td>
<td>18</td>
<td>775</td>
<td>109.7</td>
<td>268.7</td>
</tr>
<tr>
<td>OPGW-183[118.4:261.6]</td>
<td>48</td>
<td>18</td>
<td>895</td>
<td>118.4</td>
<td>261.6</td>
</tr>
</tbody>
</table>

Noted:
1. Only a part of OPGW cables are listed in the table. Cables with other specifications can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.
Typical Designs of Stranded Stainless Steel Tube OPGW

Description:
The stainless steel tube is stranded by double or three layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires.

Typical Design for Double Layer:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-89 [55.4;62.9]</td>
<td>24</td>
<td>12.6</td>
<td>381</td>
<td>55.4</td>
<td>62.9</td>
</tr>
<tr>
<td>OPGW-110 [90.0;86.9]</td>
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<td>14</td>
<td>600</td>
<td>90</td>
<td>86.9</td>
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<td>OPGW-104 [64.6;85.6]</td>
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<td>13.6</td>
<td>441</td>
<td>64.6</td>
<td>85.6</td>
</tr>
<tr>
<td>OPGW-127 [79.0;129.5]</td>
<td>36</td>
<td>15</td>
<td>537</td>
<td>79</td>
<td>129.5</td>
</tr>
<tr>
<td>OPGW-137 [85.0;148.5]</td>
<td>36</td>
<td>15.6</td>
<td>575</td>
<td>85</td>
<td>148.5</td>
</tr>
<tr>
<td>OPGW-145 [98.6;162.3]</td>
<td>48</td>
<td>16</td>
<td>719</td>
<td>98.6</td>
<td>162.3</td>
</tr>
</tbody>
</table>

Typical Design for Three Layer:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-232 [343.0;191.4]</td>
<td>28</td>
<td>20.15</td>
<td>1696</td>
<td>343</td>
<td>191.4</td>
</tr>
<tr>
<td>OPGW-254 [116.5;554.8]</td>
<td>36</td>
<td>21</td>
<td>889</td>
<td>116.5</td>
<td>554.6</td>
</tr>
<tr>
<td>OPGW-347 [366.9;687.7]</td>
<td>48</td>
<td>24.7</td>
<td>2157</td>
<td>366.9</td>
<td>687.7</td>
</tr>
<tr>
<td>OPGW-282 [358.7;372.1]</td>
<td>96</td>
<td>22.5</td>
<td>1938</td>
<td>358.7</td>
<td>372.1</td>
</tr>
</tbody>
</table>

Noted:
The above just some parts of design more can be produce as required.

Typical Designs of Central AL-covered Stainless Steel Tube OPGW

Description:
The central AL-covered steel tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. AL-covered Stainless Steel tube design increases the cross section of AL, to reach a better fault current and lightning resistance performance. Apply to the transmission line which requires small diameter and large fault current.

Typical Design for Single Layer

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-80 [82.3;46.8]</td>
<td>24</td>
<td>11.9</td>
<td>504</td>
<td>82.3</td>
<td>46.8</td>
</tr>
<tr>
<td>OPGW-70 [54.0;8.4]</td>
<td>24</td>
<td>11</td>
<td>432</td>
<td>70.1</td>
<td>33.9</td>
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<tr>
<td>OPGW-80 [84.6;46.7]</td>
<td>48</td>
<td>12.1</td>
<td>514</td>
<td>84.6</td>
<td>46.7</td>
</tr>
</tbody>
</table>

Typical Design for Double Layer

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-143 [87.9;176.9]</td>
<td>36</td>
<td>15.9</td>
<td>617</td>
<td>87.9</td>
<td>176.9</td>
</tr>
</tbody>
</table>

Noted:
The above just some parts of design more can be produce as required.
Typical Designs of Aluminum Tube OPGW

Description:
The Aluminum tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. Good anti-corrosion performance. Material and structure are uniform, good resistance to vibration fatigue.

Application:
The Aluminum tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. Good anti-corrosion performance. Material and structure are uniform, good resistance to vibration fatigue.

Characteristic:
2. Material and structure are uniform, good resistance to vibration fatigue.
3. Short circuit current has small effect on the optical fiber transmission properties.

Typical Design:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Short Circuit (Ka2s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPGW-113(87.9;176.9)</td>
<td>48</td>
<td>14.8</td>
<td>600</td>
<td>70.1</td>
<td>33.9</td>
</tr>
<tr>
<td>OPGW-70(81 ; 41)</td>
<td>24</td>
<td>12</td>
<td>500</td>
<td>81</td>
<td>41</td>
</tr>
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<td>OPGW-66(79;36)</td>
<td>36</td>
<td>11.8</td>
<td>484</td>
<td>79</td>
<td>36</td>
</tr>
<tr>
<td>OPGW-77(72;36)</td>
<td>36</td>
<td>12.7</td>
<td>503</td>
<td>72</td>
<td>67</td>
</tr>
</tbody>
</table>

Noted:
1. Only a part of OPGW cables are listed in the table. Cables with other specifications can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.

Typical Designs of OPPC

Description:
The Aluminum tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. Good anti-corrosion performance. Material and structure are uniform, good resistance to vibration fatigue.

Application:
The Aluminum tube is surrounded by single or double layers of aluminum clad steel wires (ACS) or mix ACS wires and aluminum alloy wires. Aluminum wires / Aluminum alloy wires Optical fibers. Aluminum. OPPC cables have the dual functions performance functions of phase conductors with communication capabilities.

Characteristic:
1. Replacing one or several wires of the traditional conductor with stainless steel tube and strand the tube with AS/steel wires and AL/AA wires.
2. Replacing one of the three phase conductors with OPPC, thus to form a transmission line which consists of one OPPC and two phase conductors.
3. OPPC can meet durative high temperature resistant which verified by Temperature Cycling test and Short Current test.
4. OPPC is applied to middle & high voltage power lines without ground wires such as 10kV, 35kV, 66kV and so on.
5. Telecommunications for middle & high voltage power lines in urban and rural areas; Providing optical cables for building distribution automation station.

Typical Design:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>RTS (KN)</th>
<th>Ampacity (40℃ ~ 90℃)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPPC-240/30</td>
<td>16</td>
<td>21.7</td>
<td>890</td>
<td>76.6</td>
<td>639A</td>
</tr>
<tr>
<td>OPPC-70/10</td>
<td>16</td>
<td>17.4</td>
<td>598</td>
<td>52.8</td>
<td>495A</td>
</tr>
<tr>
<td>OPPC-120/25</td>
<td>24</td>
<td>15.9</td>
<td>523</td>
<td>49</td>
<td>432A</td>
</tr>
<tr>
<td>OPPC-150/35</td>
<td>24</td>
<td>17.6</td>
<td>641</td>
<td>64.5</td>
<td>492A</td>
</tr>
</tbody>
</table>

Noted:
1. Only a part of OPGW cables are listed in the table. Cables with other specifications can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.
**Tactical Fiber Optic Cable**

**Description:**
The Simplex cable uses single 900µm tight buffered fiber as fiber optic transmission medium, covered with Aramid yarn as strength member, then extruded with thermoplastic polyurethane sheath.

**Application:**
1. Military communication system
2. Coal, oil, natural gas, geological exploration
3. Broadcast television, temporary communication

**Temperature Range:**
Operating: -20°C to 60°C
Storage: -20°C to 60°C

**Characteristic:**
1. Flexibility, easy to storage and operation
2. Polyurethane sheath provide Wear resistant, oil resistant, low temperature flexibility
3. Aramid yarn strength with stable tension
4. High tensile and high pressure to prevent rat bite, cutting, bending
5. Cable soft, good toughness, installation, maintenance convenient.

**Standards:**
Comply with standard YD/T1258.2-2003 and IEC 60794-2-10/11

**Technical Specification**

<table>
<thead>
<tr>
<th>Fiber counts</th>
<th>Cable diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Short-term</td>
<td>Long-term</td>
<td>Short-term</td>
<td>Long-term</td>
<td>Static</td>
</tr>
<tr>
<td>2–4</td>
<td>5</td>
<td>10</td>
<td>600</td>
<td>400</td>
<td>200</td>
</tr>
<tr>
<td>6–7</td>
<td>5.2</td>
<td>11.5</td>
<td>600</td>
<td>400</td>
<td>200</td>
</tr>
<tr>
<td>10–12</td>
<td>6</td>
<td>12.8</td>
<td>600</td>
<td>400</td>
<td>200</td>
</tr>
</tbody>
</table>

**Note:**
1. Only a part of cables are listed in the table. Cables with other specifications can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.

---

**Tactical Fiber Optic Cable with Helical Armored**

**Description:**
The Simplex fiber optic cable uses single 900µm tight buffered Tube structure as fiber optic transmission medium, covered with aramid yarn as strength member, then extruded with thermoplastic polyurethane sheath.

**Application:**
1. Military communication system
2. Coal, oil, natural gas, geological exploration
3. Broadcast television, temporary communication

**Temperature Range:**
Operating: -20°C to 60°C
Storage: -20°C to 60°C

**Characteristic:**
1. Flexibility, easy to storage and operation
2. Stainless steel armored protection for fiber
3. Polyurethane sheath provide Wear resistant, oil resistant, low temperature flexibility
4. Aramid yarn strength with stable tension
5. High tensile and high pressure to prevent rat bite, cutting, bending
6. Cable soft, good toughness, installation, maintenance convenient.

**Standards:**
Comply with standard YD/T1258.3-2003 and IEC 60794-2-10/11

**Technical Specification**

<table>
<thead>
<tr>
<th>Fiber counts</th>
<th>Cable diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Short-term</td>
<td>Long-term</td>
<td>Short-term</td>
<td>Long-term</td>
<td>Static</td>
</tr>
<tr>
<td>2–4</td>
<td>5</td>
<td>12</td>
<td>1400</td>
<td>2200</td>
<td>4000</td>
</tr>
<tr>
<td>6–8</td>
<td>7</td>
<td>13.5</td>
<td>1400</td>
<td>2200</td>
<td>4000</td>
</tr>
<tr>
<td>10–12</td>
<td>9</td>
<td>15</td>
<td>1400</td>
<td>2200</td>
<td>4000</td>
</tr>
</tbody>
</table>

**Noted:**
1. Only a part of cables are listed in the table. Cables with other specifications can be inquired.
2. Cables can be supplied with a range of single mode or multimode fibers.
3. Specially designed Cable structure is available on request.
**Submarine optical fiber cable**

**Description:**
Stranded Loose Tube Cable with Aluminum and Steel Tape plus Steel Wire Armor GYTA53+33 or GYTA53+333. Steel wire used as the central strength member. Special tube filling compound ensure a critical protection of fiber. Crush resistance and flexibility.

**Characteristic:**
1. Excellent mechanical and temperature performance
2. Better tensile strength performance with steel wires

**Technical Specification**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Fiber Count</th>
<th>Cable Diameter (mm)</th>
<th>Cable Weight (Kg/km)</th>
<th>Tensile Strength Long/Short Term N</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYTA53+33</td>
<td>2-36</td>
<td>19.2</td>
<td>580</td>
<td>4000/10000</td>
</tr>
<tr>
<td>GYTA53+33</td>
<td>38-60</td>
<td>20.4</td>
<td>650</td>
<td>4000/10000</td>
</tr>
<tr>
<td>GYTA53+33</td>
<td>60-72</td>
<td>21.2</td>
<td>670</td>
<td>4000/10000</td>
</tr>
<tr>
<td>GYTA53+33</td>
<td>74-96</td>
<td>23.0</td>
<td>780</td>
<td>4000/10000</td>
</tr>
<tr>
<td>GYTA53+33</td>
<td>98-120</td>
<td>24.2</td>
<td>840</td>
<td>4000/10000</td>
</tr>
<tr>
<td>GYTA53+33</td>
<td>122-140</td>
<td>26.0</td>
<td>950</td>
<td>4000/10000</td>
</tr>
<tr>
<td>Deep-sea cable</td>
<td>6</td>
<td>22.3</td>
<td>800</td>
<td>19000/29000</td>
</tr>
</tbody>
</table>

**Application:**
Submarine water and vertical shaft

**Hybrid Fiber Optic Cable with Steel Tape**

**Description:**
In the hybrid fiber optic cable, single-mode/multimode fibers are positioned in loose tubes, which are made of high modulus plastics and filled with water-blocking materials. Loose tubes and required insulated copper wires are stranded around the metallic central strength member into a compact and circular cable core. For certain high fiber count cables, the strength member would be covered with polyethylene (PE). The PSP is longitudinally applied around the cable core, before a PE sheath is extruded over it.

**Application:**
1. Suitable the filed where needs to transmit light signal and electric signal.
2. Mobile operators deploying an RRU architecture to standardize the RRU

**Characteristic:**
1. The composite cable provides the equipment electricity and signal transmission, and improves central monitoring and maintenance for equipment power
2. To reduce the coordination and maintenance of power supply
3. Combines optical fiber (multimode or single mode) and copper conductor for DC power in a single light weight aluminum corrugated cable.

**Technical Specification**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Fiber Count</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile Strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS-2-24 2x1.5</td>
<td>2-24</td>
<td>11.2</td>
<td>132</td>
<td>2-24</td>
<td>300</td>
</tr>
<tr>
<td>GDS-2-24 2x2.5</td>
<td>2-24</td>
<td>12.3</td>
<td>164</td>
<td>2-24</td>
<td>300</td>
</tr>
<tr>
<td>GDS-2-24 2x4.0</td>
<td>2-24</td>
<td>13.4</td>
<td>212</td>
<td>2-24</td>
<td>300</td>
</tr>
<tr>
<td>GDS-2-24 2x5.0</td>
<td>2-24</td>
<td>14.6</td>
<td>258</td>
<td>2-24</td>
<td>300</td>
</tr>
<tr>
<td>GDS-2-24 2x6.0</td>
<td>2-24</td>
<td>15.4</td>
<td>287</td>
<td>2-24</td>
<td>300</td>
</tr>
<tr>
<td>GDS-2-24 2x8.0</td>
<td>2-24</td>
<td>16.5</td>
<td>350</td>
<td>2-24</td>
<td>300</td>
</tr>
</tbody>
</table>

**Note:**
1. 2x1.5/2.5/2x4.0/2x6.0 is the number of specification of the conductor.
2. Different conductor specification can be make as required.
3. Different Fiber specification can be make as required.
**Figure-8 Cable with Steel Tape/Aluminum (GYTC8S/GYTC8A)**

**Description:**
In the GYTC8S/GYTC8A cable, single-mode/multimode fibers are positioned in the loose tubes, while the loose tubes strand together around metallic central strength member into a compact and circular cable core, and the water-blocking materials are distributed into interstices of it. After a PSP/APL is applied around the cable core, this part of cable accompanied with the stranded wires as the supporting part are completed with a PE sheath to be a figure-8 structure.

**Application:** Submarine water and vertical shaft

**Temperature Range:**
- Storing temperature: -40°C to +70°C
- Operating temperature: -40°C to +70°C

**Characteristic:**
1. Excellent mechanical and temperature performance
2. Critical protection to fibers
3. The following measures are taken to ensure the water blocking performance of the cable:
   - Single steel wire used as the central strength member
   - Special water-blocking filling compound in the loose tube
   - 100% cable core filling

**Standards**
Comply with stand YD/T 901-2009 as well as IEC 60794-1

**Technical Parameters**

<table>
<thead>
<tr>
<th>Cable Type (Increased by 2 fibers)</th>
<th>Fiber Count</th>
<th>Cable Diameter (mm)</th>
<th>Cable Weight (kg/km)</th>
<th>Tensile Strength (Long/Short Term N)</th>
<th>Crush Resistance (Long/Short Term N/100mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYTC8S/A 2 ~ 30</td>
<td>2 ~ 30</td>
<td>9.5 x 19.1</td>
<td>160.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 32 ~ 36</td>
<td>32 ~ 36</td>
<td>10.1 x 19.7</td>
<td>170.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 38 ~ 60</td>
<td>38 ~ 60</td>
<td>10.8 x 20.4</td>
<td>180.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 62 ~ 72</td>
<td>62 ~ 72</td>
<td>12.4 x 22.0</td>
<td>195.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 74 ~ 96</td>
<td>74 ~ 96</td>
<td>13.1 x 22.7</td>
<td>222.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 98 ~ 120</td>
<td>98 ~ 120</td>
<td>15.7 x 22.3</td>
<td>238.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYTC8S/A 122 ~ 144</td>
<td>122 ~ 144</td>
<td>15.5 x 25.1</td>
<td>273.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel; other lengths available on request.

---

**Figure-8 Cable with Steel Tape (GYXTC8S)**

**Description:**
In the GYXTC8S cable, single-mode/multimode fibers are positioned in the loose tube, which is made of high modulus plastic materials and filled with filling compound. PSP is longitudinally applied around the loose tube, and water-blocking materials are distributed into interstices of it. Then, this part of cable accompanied with the stranded wires as the supporting part are completed with a PE sheath to be a figure-8 structure.

**Application:** Self supporting Aerial

**Temperature Range:**
- Storing temperature: -40°C to +70°C
- Operating temperature: -40°C to +70°C

**Characteristic:**
1. Being used full section water retardant structure it possesses good water retardant and damp proof property.
2. Special tactics is filled into inside of loosing jacket and takes key protection to optical fiber.
3. Vertical wrapped steel strip strengthens resisting lateral pressure ability
4. figure 8 self supporting type structure possesses high tensile strength and is convenient for aerial installation and its installation cost is cheap.
5. The service life of the products will be more 30 years.

**Standards**
Comply with stand YD/T 1155-2001 as well as IEC60794-1.

**Technical Specification**

<table>
<thead>
<tr>
<th>Cable Type (Increased by 2 fibers)</th>
<th>Fiber Count</th>
<th>Max. Fibers in Tubes</th>
<th>Cable Diameter (mm)</th>
<th>Tensile Strength (Long/Short Term N)</th>
<th>Crush Resistance (Long/Short Term N/100mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYXTC8S 2 ~ 8</td>
<td>2 ~ 8</td>
<td>8</td>
<td>117.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
<tr>
<td>GYXTC8S 10 ~ 12</td>
<td>10 ~ 12</td>
<td>12</td>
<td>121.0</td>
<td>2000/6000</td>
<td>300/1000</td>
</tr>
</tbody>
</table>

**Note:**
1. 2x1. 5/2 x 2.5/4.0/2 x 6.0 is the number of specification of the conductor.
2. Different conductor specification can be make as required.
3. Different Fiber specification can be make as required.
Mini Figure 8 Fiber Optic Cable (GYAXTC8Y)

Description:
In the small figure 8 cable, this cable consists of the loose tube with single mode or multimode fibers and steel wire as the messenger wire, which are formed like "Figure 8". After aramid yarn is applied over the inner sheath, the cable is completed with a PE outer sheath.

Application:
Self supporting Aerial for FTTH Solution.

Temperature Range:
Storing temperature: -40℃ to +70℃
Operating temperature: -30℃ to +70℃

Characteristic:
1. Accurate optical fiber excess length ensures good mechanical and temperature performance.
2. High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of optical fiber.
3. Crush resistance and flexibility.
4. Figure 8 self supporting type structure possesses high tensile strength and is convenient for aerial installation and its installation cost is cheap.
5. The service life of the products will be more than 30 years.
6. Light, flexible, easy for the laying and it is used for FTTH solution.

Standards
Comply with stand YD/T 1155-2001 as well as IEC60794-1.

Technical Parameters

<table>
<thead>
<tr>
<th>Items</th>
<th>Unit</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension (Long Term)</td>
<td>N</td>
<td>500</td>
</tr>
<tr>
<td>Tension (Short Term)</td>
<td>N</td>
<td>800</td>
</tr>
<tr>
<td>Crush (Long Term)</td>
<td>N/100mm</td>
<td>1000</td>
</tr>
<tr>
<td>Crush (Short Term)</td>
<td>N/100mm</td>
<td>2200</td>
</tr>
<tr>
<td>Min. Bend Radius (Dynamic)</td>
<td>mm</td>
<td>20D</td>
</tr>
<tr>
<td>Min. Bend Radius (Static)</td>
<td>mm</td>
<td>10D</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel; other lengths available on request.

Mini Figure 8 drop Fiber Optic cable

Description:
The Figure 8 drop fiber optic cable which is an excellent stripping performance of tight buffer fiber cable, its diameter and bending radius are small. It’s full filling with aramid yarn. It can installation freely in narrow room.

Application:
1. Used for indoor wiring, the end user with cable directly;
2. Used for building introduction of optical cable;
3. The user in the FTTH indoor wiring;

Characteristic:
1. The special fiber resistance to bending, provide greater bandwidth, enhance the network transmission performance;
2. Full filling aramid yarn make cable has good compressive properties, optical fiber protection;
3. The cable has simple structure, light weight, strong practicability;
4. The unique groove design, easy stripping, convenient connection, easy installation and maintenance;
5. LSZH jacket or PE sheathed, environmental protection 8 cable

Mechanical and Environmental Characteristics:

<table>
<thead>
<tr>
<th>Items</th>
<th>Unit</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension (Long Term)</td>
<td>N</td>
<td>500</td>
</tr>
<tr>
<td>Tension (Short Term)</td>
<td>N</td>
<td>800</td>
</tr>
<tr>
<td>Crush (Long Term)</td>
<td>N/100mm</td>
<td>1000</td>
</tr>
<tr>
<td>Crush (Short Term)</td>
<td>N/100mm</td>
<td>2200</td>
</tr>
<tr>
<td>Min. Bend Radius (Dynamic)</td>
<td>mm</td>
<td>20D</td>
</tr>
<tr>
<td>Min. Bend Radius (Static)</td>
<td>mm</td>
<td>10D</td>
</tr>
<tr>
<td>Installation Temperature</td>
<td>°C</td>
<td>-0℃ to + 60℃</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>°C</td>
<td>-20℃ to + 70℃</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-20℃ to + 70℃</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.
Stranded Loose Tube Cable with Aluminum Tape/Steel Tape (GYTA/GYTS)

Description:
In the GYTA cable, single-mode/multimode fibers are positioned in the loose tubes, the tubes are filled with water blocking filling compound. Tubes and fillers are stranded around the strength member into a circular cable core. An APL/PSP is applied around the core. Which is filled with the filling compound to protect it. Then the cable is completed with a PE sheath.

Application: Duct/Aerial

Temperature Range:
Storing temperature: -40°C to +70°C
Operating temperature: -40°C to +70°C

Characteristic:
1. Excellent mechanical and temperature performance guaranteed by the accurate excess Fiber length
2. Critical protection to fibers
3. The following measures are taken to ensure the water blocking performance of the cable:
   - Single steel wire used as the central strength member
   - Special water-blocking filling compound in the loose tube
   - 100% cable core filling

Standards
Comply with standard YD/T 901–2009 as well as IEC 60794–1

Technical Parameters

<table>
<thead>
<tr>
<th>Cable Type (increased by 2fibers)</th>
<th>Fiber Count</th>
<th>Tubes + Fillers</th>
<th>Cable Diameter, mm</th>
<th>Cable Weight, kg/km</th>
<th>Tensile Strength Long/Short Term N</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Bending Radius Static/Dynamic, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYTA/S 32 ~ 36</td>
<td>6</td>
<td>4</td>
<td>10.5</td>
<td>97</td>
<td>600/1500</td>
<td>350/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 56 ~ 72</td>
<td>6</td>
<td>4</td>
<td>11.5</td>
<td>126</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 80 ~ 100</td>
<td>10</td>
<td>4</td>
<td>13.2</td>
<td>153</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 122 ~ 144</td>
<td>12</td>
<td>4</td>
<td>16.5</td>
<td>221</td>
<td>600/2500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 146 ~ 168</td>
<td>16</td>
<td>4</td>
<td>19.5</td>
<td>282</td>
<td>600/2500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 192 ~ 216</td>
<td>20</td>
<td>4</td>
<td>22.5</td>
<td>321</td>
<td>600/2500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA/S 240 ~ 288</td>
<td>24</td>
<td>4</td>
<td>25.5</td>
<td>381</td>
<td>600/2500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel: other lengths available on request.

Stranded Loose Tube Cable with Non–metallic Central Strength Member (GYFTY)

Description:
In the GYFTY cable, single-mode/multimode fibers are positioned in the loose tubes, while the loose tubes strand together around non–metallic central strength member (FRP) into a compact and circular cable core. The strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into the interstices of the cable core. Then the cable is completed with a PE sheath.

Application: Duct/Aerial

Temperature Range:
Storing temperature: -40°C to +70°C

Characteristic:
1. Excellent mechanical and temperature Performance. Critical protection to fibers
2. Excellent ultraviolet prevention with PE sheath
3. Excellent crush resistance and flexibility
4. The following measures are taken to ensure the water blocking performance of the cable:
   - FRP used as the central strength member
   - Special water-blocking filling compound in the loose tube
   - 100% cable core filling

Standards
Comply with stand YD/T 901–2009 as well as IEC 60794–1

Technical Parameters

<table>
<thead>
<tr>
<th>Cable Type (increased by 2fibers)</th>
<th>Fiber Count</th>
<th>Tubes + Fillers</th>
<th>Cable Diameter, mm</th>
<th>Cable Weight, kg/km</th>
<th>Tensile Strength Long/Short Term N</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Bending Radius Static/Dynamic, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYFTY 2 ~ 6</td>
<td>2</td>
<td>1</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYFTY 8 ~ 12</td>
<td>4</td>
<td>2</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYFTY 14 ~ 18</td>
<td>6</td>
<td>3</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYFTY 20 ~ 24</td>
<td>8</td>
<td>4</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYFTY 26 ~ 30</td>
<td>10</td>
<td>4</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYFTY 32 ~ 36</td>
<td>12</td>
<td>4</td>
<td>11.0</td>
<td>97</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel: other lengths available on request.
Uni-tube Light-armored Cable (GYXTW)

**Description:**
In the GYXTW cable, single-mode/multimode fibers are positioned in the loose tube, which is made of high modulus plastic materials and filled with filling compound. PSP is longitudinally applied around the loose tube, and water-blocking materials are distributed into interstices between them to guarantee the compactness and longitudinal water-blocking performance. Two parallel steel wires are placed at both sides of the cable core while PE sheath is extruded over it.

**Application:** Aerial/Duct

**Temperature Range:**
- Storing temperature: -40°C to +70°C
- Operating temperature: -40°C to +70°C

**Characteristic:**
1. Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length.
2. Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube.
3. Special compact structure to avoid the loose tube shrinkage.
4. Excellent crush resistance and flexibility.
5. PSP enhances the cable crush-resistance, impact-resistant and moisture-proof.
6. Two parallel steel wires ensure tensile strength. Small diameter, light weight and installation friendliness with long delivery length.
7. Excellent ultraviolet prevention with PE sheath.
8. Small diameter, light weight and installation friendliness

**Standards**
Comply with standard YD/T 769-2010

**Technical Parameters**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Fiber Count</th>
<th>Cable Dia (mm)</th>
<th>Cable Weight</th>
<th>Tensile Strength Long/Short Term</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Bending Radius Static/Dynamic mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYXTW 2~12</td>
<td>2~12</td>
<td>8.2</td>
<td>78</td>
<td>600/1500</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel: other lengths available on request.

Unitube Non-metallic Non-armored Cable

**Description:**
The fibers, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. The cable is completed with a polyethylene (PE) sheath.

**Application:**

**Temperature Range:**
- Operating temperature: -40°C to +70°C
- Storing temperature: -40°C to +70°C

**Characteristic:**
1. Good mechanical and temperature performance
2. High strength loose tube that is hydrolysis resistant
3. Special tube filling compound ensure a critical protection of fiber
4. Two parallel FRPs ensure tensile strength
5. PE sheath protects cable form ultraviolet radiation
6. Small diameter, light weight and friendly installation
7. Long delivery length

**Standards**
Complies with standard YD/T 769-2010.

**Technical Parameters**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Fiber Count</th>
<th>Cable Dia (mm)</th>
<th>Cable Weight</th>
<th>Tensile Strength Long/Short Term</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Bending Radius Static/Dynamic mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYXTW 2~12</td>
<td>2~12</td>
<td>8.2</td>
<td>81</td>
<td>400/1000</td>
<td>300/1000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>
Stranded Loose Tube Cable with Aluminum Tape and Steel Tape (Double Sheaths) (GYTA53)

Description:
In the GYTA53 cable, single-mode/multimode fibers are positioned in the loose tubes, the tubes are filled with water blocking filling compound. Tubes and fillers are stranded around the strength member into a circular cable core. An Aluminum Polyethylene Laminated (APL) is applied around the core. Which is filled with the filling compound to protect it. Then the cable is completed with a PE sheath. After PSP is applied over the inner sheath, the cable is completed with a PE outer sheath.

Application:
Direct buried

Temperature Range:
Storing temperature: -40°C to +70°C
Operating temperature: -40°C to +70°C

Characteristic:
1. Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
2. Critical protection to fibers
3. Excellent crush resistance and flexibility
4. The following measures are taken to ensure the water blocking performance of the cable:
   - Single steel wire used as the central strength member
   - Special water-blocking filling compound in the loose tube
   - 100% cable core filling
   - APL and PSP moisture barrier

Standards:
Comply with stand YD/T 901–2009 as well as IEC 60794–1

Technical Parameters

<table>
<thead>
<tr>
<th>Cable Type (increased by lifbers)</th>
<th>Fiber Count</th>
<th>Tubes+Fillers</th>
<th>Cable Diameter mm</th>
<th>Cable Weight kg/km</th>
<th>Tensile Strength Long/Short Term N</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Soldering Radii Static/Dynamic mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYTA53 2~36</td>
<td>2~36</td>
<td>6</td>
<td>13.7</td>
<td>190</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA53 38~72</td>
<td>38~72</td>
<td>6</td>
<td>15.3</td>
<td>229</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA53 74~96</td>
<td>74~96</td>
<td>8</td>
<td>15.9</td>
<td>244</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA53 98~120</td>
<td>98~120</td>
<td>10</td>
<td>18.0</td>
<td>288</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA53 122~144</td>
<td>122~144</td>
<td>12</td>
<td>19.2</td>
<td>325</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTA53 146~288</td>
<td>146~288</td>
<td>18</td>
<td>20.9</td>
<td>373</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel; other lengths available on request.

Stranded Loose Tube Cable with Steel Tape (Double Sheaths) (GYTY53)

Description:
In the GYTY53 cable, single-mode/multimode fibers are positioned in the loose tubes, the tubes are filled with water blocking filling compound. Tubes and fillers are stranded around the strength member into a circular cable core. Then the cable is completed with a PE sheath. After PSP is applied over the inner sheath, the cable is completed with a PE outer sheath.

Application:
Direct buried

Temperature Range:
Storing temperature: -40°C to +70°C
Operating temperature: -40°C to +70°C

Characteristic:
1. Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
2. Critical protection to fibers
3. Excellent crush resistance and flexibility
4. The following measures are taken to ensure the water blocking performance of the cable:
   - Single steel wire used as the central strength member
   - Special water-blocking filling compound in the loose tube
   - PSP moisture barrier
   - 100% cable core filling and water-blocking material

Standards:
Comply with stand YD/T 901–2009 as well as IEC 60794–1

Technical Parameters

<table>
<thead>
<tr>
<th>Cable Type (increased by lifbers)</th>
<th>Fiber Count</th>
<th>Tubes+Fillers</th>
<th>Fiber in Tube</th>
<th>Cable Diameter mm</th>
<th>Cable Weight kg/km</th>
<th>Tensile Strength Long/Short Term N</th>
<th>Crush Resistance Long/Short Term N/100mm</th>
<th>Soldering Radii Static/Dynamic mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GYTY53 2~36</td>
<td>2~36</td>
<td>6</td>
<td>6</td>
<td>12.6</td>
<td>184</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTY53 38~72</td>
<td>38~72</td>
<td>6</td>
<td>12</td>
<td>14.0</td>
<td>216</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTY53 74~96</td>
<td>74~96</td>
<td>8</td>
<td>12</td>
<td>15.7</td>
<td>260</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTY53 98~120</td>
<td>98~120</td>
<td>10</td>
<td>12</td>
<td>17.4</td>
<td>301</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTY53 122~144</td>
<td>122~144</td>
<td>12</td>
<td>12</td>
<td>19.0</td>
<td>354</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
<tr>
<td>GYTY53 144~288</td>
<td>288~288</td>
<td>18</td>
<td>12</td>
<td>19.0</td>
<td>350</td>
<td>1000/3000</td>
<td>1000/3000</td>
<td>10D/20D</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 3000m/reel; other lengths available on request.
FTTH Self-supporting Bow-type Drop Cable

Description:
The typical self-supporting bow-type drop fiber optic cable consists of GJXFH/GJXH cable and an additional messenger wire.

Application:
1. All types of fiber cables with different structures
2. High performance optical network operating
3. High speed optical routes in buildings (FTTX)

Temperature Range:
Operating: -20℃ to +60℃
Storage: -20℃ to +60℃

Characteristic:
1. Novel groove design, easily strip and splice, simplified installation and maintenance, higher tensile strength
2. Suitable as cable extending from outdoor (as aerial cable) to indoor
3. Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

Standards
Comply with standard YD/T1997-2009

Technical Parameter

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength(N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Short-term</td>
</tr>
<tr>
<td>GJXFCH-1</td>
<td>2.0+5.0</td>
<td>18.2</td>
<td>600</td>
<td>300</td>
<td>2200</td>
</tr>
<tr>
<td>GJXFCH-2</td>
<td>2.0+5.0</td>
<td>18.2</td>
<td>600</td>
<td>300</td>
<td>2200</td>
</tr>
<tr>
<td>GJXFCH-4</td>
<td>2.0+5.1</td>
<td>18.5</td>
<td>600</td>
<td>300</td>
<td>2200</td>
</tr>
<tr>
<td>GJXFCH-6</td>
<td>2.0+6.1</td>
<td>18.5</td>
<td>600</td>
<td>300</td>
<td>2200</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.

www.ksdfiber cable.com
**FTTH Bow-type Drop Cable**

**Description:**
The typical bow-type drop optical cable includes central optical fibers with 2 parallel KFRP or steel wire as the strength members placed on both sides, a LSZH or PVC sheath is extruded outside.

**Application:**
1. All types of fiber cables with different structures
2. High performance optical network operating
3. High speed optical routes in buildings (FTTX)

**Temperature Range:**
Operating: -20℃ to +60℃
Storage: -20℃ to +60℃

**Characteristic:**
1. Simple structure, light weight, high tensile strength
2. Novel groove design, easily strip and splice, simplified installation and maintenance
3. Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety

**Technical Parameter**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength(N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Short-term</td>
</tr>
<tr>
<td>GJXFH-1</td>
<td>2.0*3.0</td>
<td>8.5</td>
<td>80</td>
<td>1000</td>
<td>500</td>
</tr>
<tr>
<td>GJXFH-2</td>
<td>2.0*3.0</td>
<td>8.5</td>
<td>80</td>
<td>1000</td>
<td>500</td>
</tr>
<tr>
<td>GJXFH-4</td>
<td>2.0*3.0</td>
<td>8.5</td>
<td>80</td>
<td>1000</td>
<td>500</td>
</tr>
<tr>
<td>GJXH-6</td>
<td>2.0*4.0</td>
<td>11.5</td>
<td>80</td>
<td>1000</td>
<td>500</td>
</tr>
<tr>
<td>GJXH-8</td>
<td>2.0*4.0</td>
<td>11.5</td>
<td>80</td>
<td>1000</td>
<td>500</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multi mode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.

---

**Flat Fiber Optic Drop Cable**

**Description:**
Flat fiber optic cable put in side with 2 FRP, the optical fiber unit positioned in the Loose tube. Two parallel strength member are placed at the two sides and have loose tube to protect fiber, outside sheath is PE.

**Application:**
1. Suitable for aerial drop installation
2. Long distance and local area network Fiber to the home (FTTH)

**Characteristic:**
1. Easy for installation
2. Anti-UV characteristics meet the requirements of relevant standards
3. The mechanical characteristics meet the requirements of relevant standards
4. Big capacity data transmission
5. Meet various requirements of market and clients

**Technical Parameter**

<table>
<thead>
<tr>
<th>Fiber counts</th>
<th>Cable Outer Diameter (mm)</th>
<th>Weight (kg)</th>
<th>Tensile strength(N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
<th>Storage temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core 2~24</td>
<td>7.7*3.8</td>
<td>36.00</td>
<td>1500</td>
<td>600</td>
<td>1000</td>
<td>300</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.
**Indoor Simplex Fiber Optic Cable (GJFJV–Single fiber)**

**Description:**
The Simplex cable uses single 900µm or 600µm tight buffered fiber as fiber optic transmission medium, covered with aramid yarn as strength member, then extruded with a PVC sheath. Other sheath materials, like LSZH and TPU, are available on request.

**Application:**
1. Terminated with various types of connectors
2. As pigtail of communication equipment
3. Suitable for communication equipment served

**Temperature Range:**
Operating: −20℃ to +60℃
Storage: −20℃ to +60℃

**Characteristic:**
1. Excellent strippability with tight buffered fiber
2. Excellent flame retardant properties
3. High tensile strength due to aramid strength member
4. Excellent corrosion resistant, waterproof, flame retardant and environmental-friendly properties of the outer sheath

**Standards**
Comply with standard YD/T1258.2–2003 and IEC 60794–2-10/11

**Technical Specification**

<table>
<thead>
<tr>
<th>Cable Diameter (mm)</th>
<th>Tight Buffer Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile Strength (N)</th>
<th>Crush Resistance</th>
<th>Minimum Bending Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Short-term</td>
<td>Long-term</td>
<td>Short-term</td>
</tr>
<tr>
<td>1.6</td>
<td>0.6</td>
<td>2.8</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
<tr>
<td>1.8</td>
<td>0.6</td>
<td>3.0</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
<tr>
<td>2.0</td>
<td>0.9</td>
<td>4.25</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
<tr>
<td>2.4</td>
<td>0.9</td>
<td>5.00</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
<tr>
<td>2.8</td>
<td>0.9</td>
<td>6.60</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
<tr>
<td>3.0</td>
<td>0.9</td>
<td>7.00</td>
<td>150</td>
<td>80</td>
<td>500</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.

---

**Indoor Zip-cord Interconnect Fiber Optic Cable (GJFJV)**

**Description:**
The zip-cord interconnect cable uses two 900µm or 600µm tight buffered fibers as fiber optic transmission medium, covered with aramid yarn as strength member, then extruded with a PVC sheath. Other sheath materials, like LSZH and TPU, are available on request.

**Application:**
1. Duplex fiber flexible connection jumper or pigtail
2. Indoor riser level and plenum level cabling
3. Instruments communication equipment interconnection

**Temperature Range:**
Operating: −20℃ to +60℃
Storage: −20℃ to +60℃

**Characteristic:**
1. Excellent strippability with tight buffered fiber
2. Excellent flame retardant properties
3. High tensile strength due to aramid strength member
4. Excellent corrosion resistant, waterproof, flame retardant and environmental-friendly properties of the outer sheath

**Standards**
Comply with standard YD/T1258.3–2003 and IEC 60794–2-10/11

**Technical Specification**

<table>
<thead>
<tr>
<th>Cable Diameter (mm)</th>
<th>Tight Buffer Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile Strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum Bending Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Short-term</td>
<td>Long-term</td>
<td>Short-term</td>
</tr>
<tr>
<td>1.6</td>
<td>3.3</td>
<td>0.6</td>
<td>4.8</td>
<td>150</td>
<td>80</td>
</tr>
<tr>
<td>1.6</td>
<td>3.7</td>
<td>0.6</td>
<td>6.6</td>
<td>150</td>
<td>80</td>
</tr>
<tr>
<td>2.0</td>
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<tr>
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<td>0.9</td>
<td>9.9</td>
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<td>80</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.
Indoor Duplex Flat Fiber Optic Cable（GJFJBV）

Description:
The duplex flat cable uses two 900μm or 600μm tight buffered fibers as fiber optic transmission medium, covered with Kevlar aramid yarn as strength member while each fiber extruded with a PVC inner sheath, then extruded with a flat PVC outer sheath. Other sheath materials, like LSZH and TPU, are available on request.

Application:
1. Duplex optical fiber flexible connection jumper or pigtail
2. Indoor riser level and plenum level cabling
3. Instruments communication equipment interconnection

Temperature Range:
Operating: −20℃ to +60℃
Storage: −20℃ to +60℃

Characteristic:
1. Excellent strippability with tight buffered fiber
2. Excellent flame retardant properties
3. High tensile strength due to aramid strength member
4. Excellent corrosion resistant, waterproof, flame retardant and environmental– friendly properties of the outer sheath

Standards
Comply with standard YD/T1258.3–2003 and IEC 60794–2–10/11

Technical Parameter

<table>
<thead>
<tr>
<th>Fiber Counts</th>
<th>Outer Sheath Diameter (mm)</th>
<th>Inner Jacket Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
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<tbody>
<tr>
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<td>6.2±0.4</td>
<td>26</td>
<td>300</td>
<td>130</td>
<td>440</td>
<td>60</td>
</tr>
<tr>
<td>12</td>
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<td>200</td>
<td>660</td>
<td>660</td>
<td>60</td>
</tr>
<tr>
<td>24</td>
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<td>200</td>
<td>660</td>
<td>660</td>
<td>60</td>
</tr>
<tr>
<td>36</td>
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<td>200</td>
<td>660</td>
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<td>60</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.

Indoor Multi Purpose Distribution Fiber Optic Cable（GJFJV）

Description:
The multi purpose distribution cable uses several 900μm or 600μm tight buffered fibers as fiber optic transmission medium, covered with aramid yarn as strength member, then extruded with a PVC sheath. Other sheath materials, like LSZH, PVC and TPU, are available on request.

Application:
1. Multi-core fiber flexible connector
2. Indoor cabling

Temperature Range:
Operating: −20℃ to +60℃
Storage: −20℃ to +60℃

Characteristic:
1. Excellent strippability with tight buffered fiber.
2. High tensile strength due to aramid strength member
3. Excellent corrosion resistant, waterproof, flame retardant and environmental– friendly properties of the outer sheath

Standards
Comply with standard YD/T1258.4–2005 and IEC 60794–2–20/21

Technical Parameter

<table>
<thead>
<tr>
<th>Fiber Counts</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength (N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
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</thead>
<tbody>
<tr>
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<td>Short-term</td>
<td>Long-term</td>
<td>Static</td>
</tr>
<tr>
<td>4</td>
<td>5.2±0.4</td>
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<td>12</td>
<td>6.5±0.4</td>
<td>31.5</td>
<td>200</td>
<td>660</td>
<td>660</td>
</tr>
<tr>
<td>24</td>
<td>8.2±0.4</td>
<td>50.5</td>
<td>200</td>
<td>660</td>
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<td>9.0±0.4</td>
<td>70.5</td>
<td>200</td>
<td>660</td>
<td>660</td>
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<tr>
<td>48</td>
<td>10.5±0.4</td>
<td>88.5</td>
<td>200</td>
<td>660</td>
<td>660</td>
</tr>
</tbody>
</table>

Note:
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
3. Standard Reel Length: 2000m/reel; other lengths available on request.
**Indoor Multi Purpose Distribution Fiber Optic Cable (GJFPV)**

**Description:**
GJFPV multi purpose distribution cable use 6-fiber sub-units (900μm tight buffer, aramid yarn as strength member). A fiber reinforced plastic (FRP) located in the center of core as a non-metallic strength member. The sub-units are stranded around the cable core. The cable is completed with a PVC or LSZH jacket.

**Application:**
1. Backbone distribution cable in building
2. Indoor cabling

**Temperature Range:**
Operating: -20°C to +60°C
Storage: -20°C to +60°C

**Characteristic:**
1. Excellent strippability with tight buffered fiber
2. High tensile strength due to aramid strength member
3. Excellent corrosion resistant, waterproof, flame retardant and environmental-friendly properties of the outer sheath

**Standards**
Comply with standard YD/T1258.4-2005 and IEC 60794-2-20/21

**Technical Parameter**

<table>
<thead>
<tr>
<th>Fiber Counts</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength(N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
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</thead>
<tbody>
<tr>
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<td>Short-term</td>
<td>Long-term</td>
<td>Short-term</td>
</tr>
<tr>
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</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.

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**Indoor Flat Fiber Ribbon Fiber Optic Cable (GJDFBV)**

**Description:**
GJDFBV flat ribbon cable uses fiber ribbon as optical transmission medium, covered with aramid yarn as strength member, then extruded with a PVC sheath. Other sheath materials, like LSZH and TPU, are available on request.

**Application:**
1. Ribbon fiber flexible connection jumper
2. Various indoor cabling solutions. Especially used in good laying conditions.
3. Interconnection between apparatuses

**Temperature Range:**
Operating: -20°C to +60°C
Storage: -20°C to +60°C
Installation: -5°C to +50°C

**Characteristic:**
1. Excellent strippability with tight buffered fiber
2. High tensile strength due to aramid strength member
3. Excellent corrosion resistant, waterproof, flame retardant and environmental-friendly properties of the outer sheath

**Standards**
Comply with standard YD/T1258.4-2005 and IEC 60794-2-20/21

**Technical Parameter**

<table>
<thead>
<tr>
<th>Fiber Counts</th>
<th>Cable Diameter (mm)</th>
<th>Weight (kg/km)</th>
<th>Tensile strength(N)</th>
<th>Crush Resistance (N/100mm)</th>
<th>Minimum bending radius (mm)</th>
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<td>6</td>
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<td>200</td>
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<td>12</td>
<td>2.5±5.0</td>
<td>10</td>
<td>200</td>
<td>80</td>
<td>500</td>
</tr>
</tbody>
</table>

**Note:**
1. Cables can be supplied with a range of single mode or multimode fibers.
2. The dimensions and raw materials can be designed according to the demand of the customers.
### Accessories Hardware

#### 1. Suspension Clamp
Assembly with reinforced suspension clamp and neoprene inner covering, especially designed for OPGW cables includes grounding clamps for tower connection.

![Suspension clamp](image)

**Structure**
- Straight shackle — (Galvanized forged steel)
- Parallel connection clamp — (Aluminum)
- Armour grid suspension clamp — (Aluminum)
- Preformed rods — (Aluminum alloy)
- Grounding clamp — (Aluminum)

#### 2. Dampers
The dampers are used to absorb the cable vibrations. The number of dampers is determined by the environmental conditions, the distance between towers, the type of OPGW cable and the installation parameters.

**Structure**
- Securing clamp (Aluminum alloy)
- Messenger cable — (Galvanized steel wire)
- Counter weights — (Galvanized forged steel)

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### Down-lead Clamp

The down-lead clamp clamps are used to fix the cable to the tower in the down lead to the joint box.

![Down-lead Clamp](image)

**Structure**
- Clamp – (Aluminum)
- M-12 rod — (Galvanized steel)
- Support body — (Galvanized steel)
- Lock screw — (Stainless steel)

**Tension Assembly**
Preformed tension especially designed for OPGW cable includes grounding clamps for tower connection, when the distance between two anchor towers is greater than maximum length of OPGW cable drums, there are special tension assemblies for installation in suspension towers, allowing a cable joint to be included.

**Structure**
- Clamp — (Aluminum)
- M-12 rod – (Galvanized steel)
- Support body — (Galvanized steel)
- Lock screw — (Stainless steel)
- Protection Splice — (Compression aluminum clad steel)
- Ground clamp — (Aluminum)

**Configuration**
There are three types of assemblies for installation in tension towers:
1) Passing tension assembly: for intermediate towers
2) Splicing tension assembly: for towers with joint boxes
3) Final tension assembly: for final towers

**Noted:**
More Hardware accessories are available on customer’s request.
**ODF**

Features:
1. Easy Installation and Maintenance
2. High reliability and stability
3. FC/SC/ST/LC/Others (SC duplex/LC duplex) for Option
4. Anti-Rust paint coating
5. Rugged Case with High Security
6. Sliding Rail style
7. For 19 inch

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**Fiber Patchcord**

Features:
1. Low Insertion Loss
2. High Return Loss
3. Good interchangeability and reliability
4. Easy operation
5. Available to OFNR cable or LSZH and OFNP cable
**Optic Fiber PLC**

**Features:**
1. Low Insertion Loss
2. Low Polarization Dependent Loss
3. Wide Operation Wavelength
4. Wide Operation Temperature
5. High Stability and Reliability
6. Telcordia GR-1209 and GR-1221 Compliance

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**Distribution Box**

**Features:**
1. Large capacity, high density,
2. Two adapter card type installation FC, SC,
3. Meet the needs of the ribbon cable and the ribbon cable;
4. The logo is clear, the succeeded and distribution of each core optical fiber is explicitly labeled;
5. Each connection module can separate out, easy to operate, protective fiber contact disk storage function;
6. Unit, introduced with fiber optic cable, fiber optic cable can be up and down into the cable, optical fiber distribution and scheduling the positive operation.
Terminal Box

Features:
1. ABS material used ensures the body strong and light.
2. Water-proof design for outdoor uses.
3. Ready for wall mount – installation kits provided.
4. No screws and tools needed for installing adapters.
5. Designed space for adding splitters.
6. Double-layer design for easier installation and maintenances:
7. Lower layer for splitters and over length fiber storage.

KSD-TN-1  KSD-TN-2  KSD-TN-3

Cable Joint Clouser

Features:
1. Low Insertion loss
2. Low PDL
3. High Return Loss
4. Uniform Power Splitting
5. Compact Design
6. Wide Operating Wavelength
7. Wide Operating Temperature
8. Excellent Environmental Mechanical Stability

KSD-JC-1  KSD-JC-2  KSD-JC-3

KSD-JC-4  KSD-JC-5  KSD-JC-6