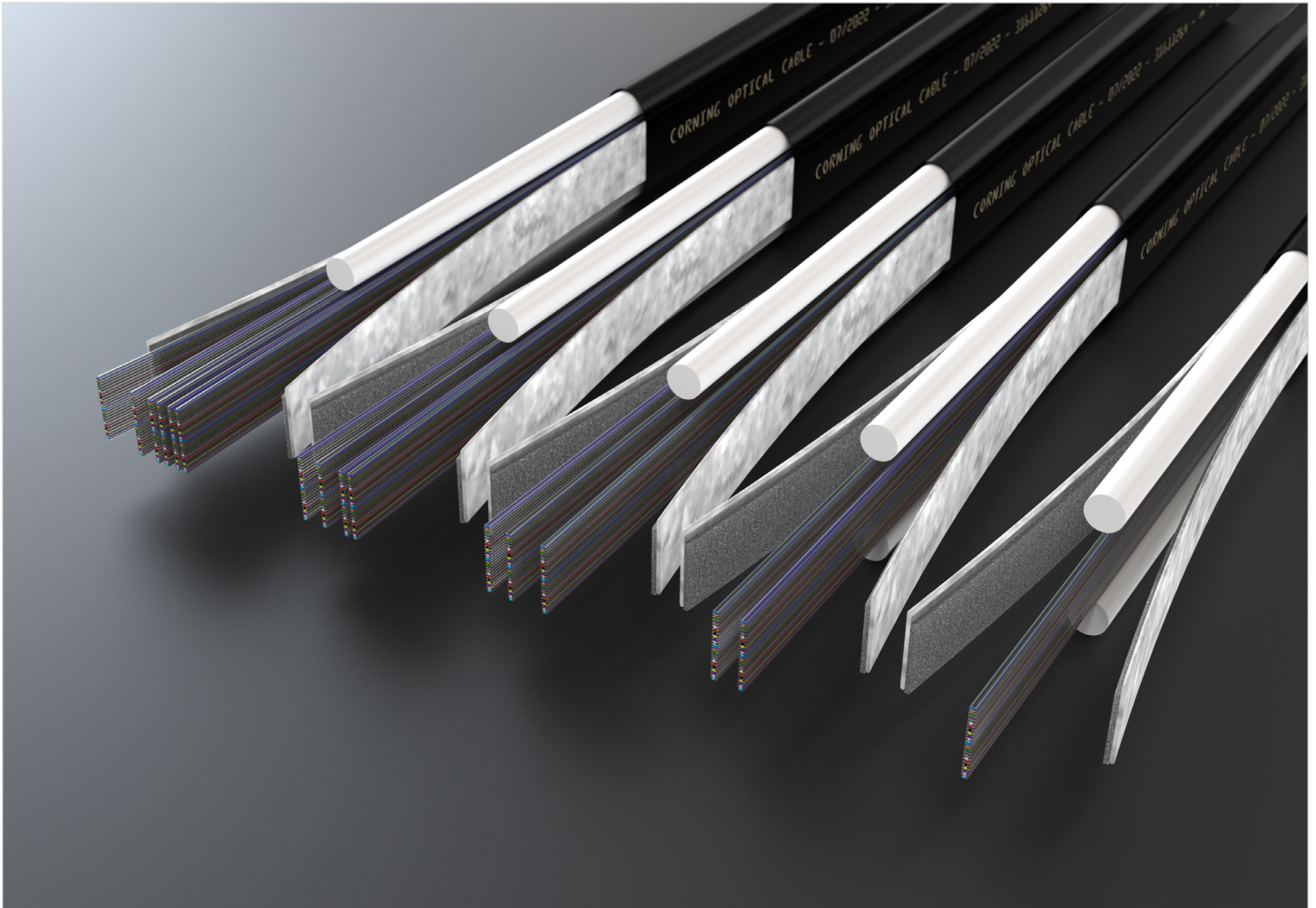


## RPX<sup>®</sup> Long Span Ribbon Cable-250



Corning RPX<sup>®</sup> Long Span ribbon cable is another innovative breakthrough in cable technology. Providing up to 144 fibers in a rugged, compact design, the coupling features ensure the ribbon stack and cable act as one unit, providing long-term reliability in aerial applications.

The RPX Long Span cable is designed with a one-step easily accessible central cavity containing a ribbon stack of up to 144 fibers wrapped with a protective waterblocking tape. The ribbon stack consists of 24-fiber ribbons that can be easily separated by hand into 12-fiber ribbons. Dielectric strength members under the cable jacket provide tensile and anti-buckling strength. The cable is jacketed with a black, UV-resistant polyethylene sheath. The one-step cable access simplifies cable preparation work and eliminates the need for special tools in mid-span applications.

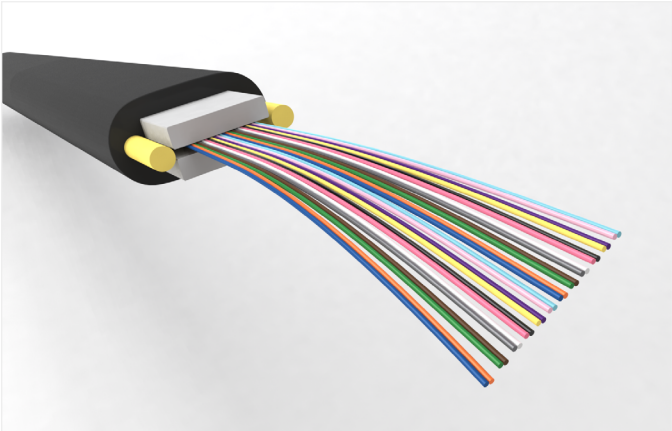
Self-supporting capabilities up to a 345-foot span in NESC Heavy at 1% installation SAG; accompanied by simplified, smaller, and easy-to-install hardware.

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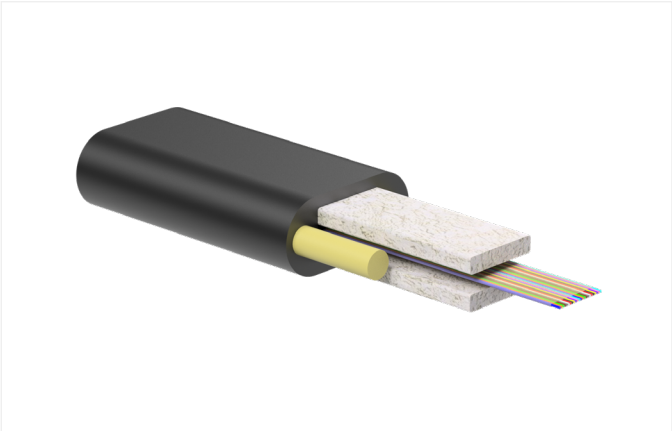
| Features                                     | Benefits                                               |
|----------------------------------------------|--------------------------------------------------------|
| Gel-free with no filling compound            | Eliminates cleaning time and labor                     |
| One-step cable access                        | Simplifies prep work, no special tools needed          |
| Each 12-fiber ribbon is individually printed | Permanent unique ID for easy identification            |
| Up to 144 fibers in a compact ADSS design    | Simplified, smaller, and easy-to-install hardware      |
| All-Dielectric Self-Supporting               | Up to 345 ft span in NESC Heavy at 1% installation SAG |

## Standards

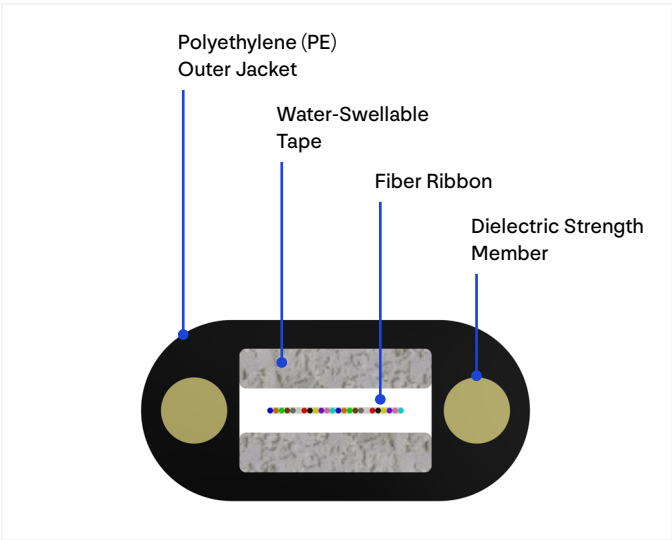
| Common Installations                                                                                                    | Design and Test Criteria            |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Bulk cable: outdoor aerial, also typically in distribution segment as part of the FlexNAP™ Terminal Distribution System | ANSI/ICEA S-87-640, Telcordia GR-20 |



RPX® Long Span Ribbon Cable-250, 12x2F Splittable 24F Ribbon

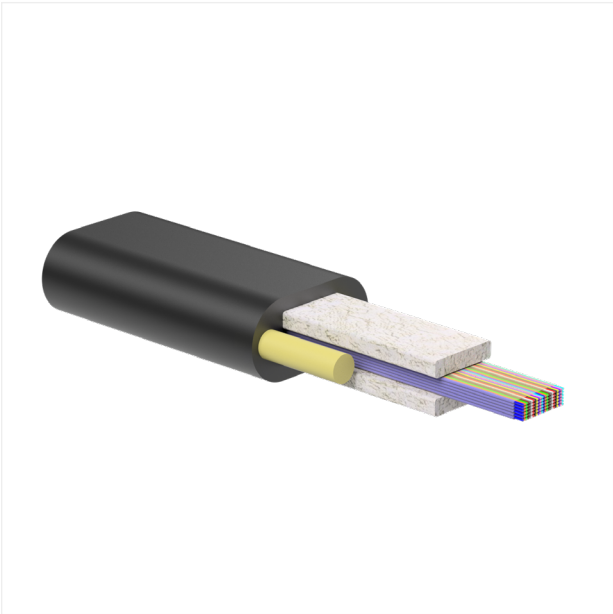


RPX Long Span Ribbon Cable-250, 24 Fibers

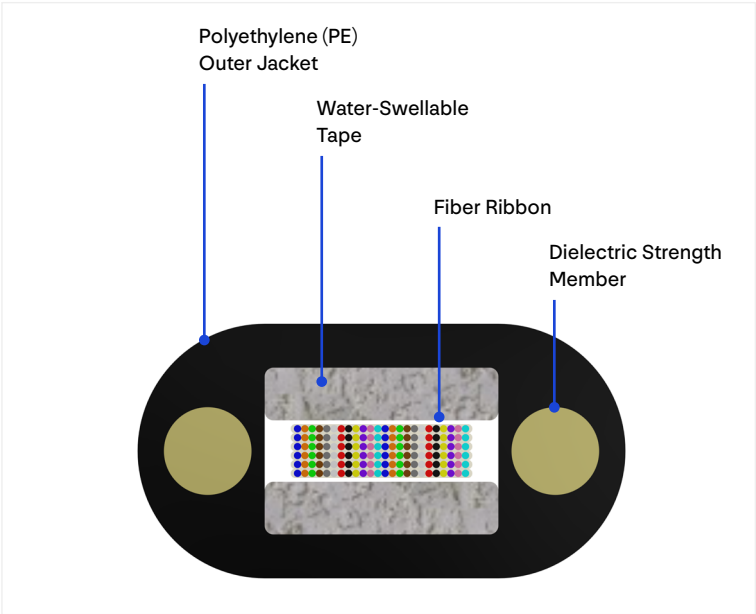


RPX Long Span Ribbon Cable-250, 24 Fibers

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RPX® Long Span Ribbon Cable-250, 144 Fibers



RPX Long Span Ribbon Cable-250, 144 Fibers

Specifications

| Temperature Range |                                |
|-------------------|--------------------------------|
| Storage           | -40°C to 70°C (-40°F to 158°F) |
| Installation      | -30°C to 70°C (-22°F to 158°F) |
| Operation         | -40°C to 70°C (-40°F to 158°F) |

*Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.*

| Mechanical Characteristics Cable  |                  |
|-----------------------------------|------------------|
| Max. Tensile Strength, Short-Term | 2700 N (600 lbf) |
| Max. Tensile Strength, Long-Term  | 890 N (200 lbf)  |

| Chemical Characteristics |                                                           |
|--------------------------|-----------------------------------------------------------|
| RoHS                     | Free of hazardous substances according to RoHS 2002/95/EG |

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| Fiber Count | Nominal Outer Diameter            | Max. Tensile Strength, Short-Term | Max. Tensile Strength, Long-Term | Min. Bend Diameter Installation | Min. Bend Diameter Operation | Weight                          |
|-------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|------------------------------|---------------------------------|
| Dielectric  |                                   |                                   |                                  |                                 |                              |                                 |
| 24          | 17.6 x 8.6 mm<br>(0.69 x 0.34 in) | 2700 N<br>(600 lbf)               | 890 N<br>(200 lbf)               | 456 mm<br>(17.95 in)            | 456 mm<br>(17.95 in)         | 95 kg/km<br>(63.84 lb/1000 ft)  |
| 48          | 17.6 x 8.6 mm<br>(0.69 x 0.34 in) | 2700 N<br>(600 lbf)               | 890 N<br>(200 lbf)               | 456 mm<br>(17.95 in)            | 456 mm<br>(17.95 in)         | 98 kg/km<br>(65.85 lb/1000 ft)  |
| 72          | 17.6 x 8.6 mm<br>(0.69 x 0.34 in) | 2700 N<br>(600 lbf)               | 890 N<br>(200 lbf)               | 456 mm<br>(17.95 in)            | 456 mm<br>(17.95 in)         | 104 kg/km<br>(69.88 lb/1000 ft) |
| 96          | 17.6 x 8.6 mm<br>(0.69 x 0.34 in) | 2700 N<br>(600 lbf)               | 890 N<br>(200 lbf)               | 456 mm<br>(17.95 in)            | 456 mm<br>(17.95 in)         | 107 kg/km<br>(71.9 lb/1000 ft)  |
| 144         | 17.6 x 8.6 mm<br>(0.69 x 0.34 in) | 2700 N<br>(600 lbf)               | 890 N<br>(200 lbf)               | 456 mm<br>(17.95 in)            | 456 mm<br>(17.95 in)         | 113 kg/km<br>(75.93 lb/1000 ft) |

## Transmission Performance

| Single-mode                 |                   |
|-----------------------------|-------------------|
| Fiber Name                  | Single-mode (OS2) |
| Fiber Category              | G.652.D           |
| Fiber Code                  | E                 |
| Performance Option Code     | 01                |
| Wavelengths (nm)            | 1310/1383/1550    |
| Maximum Attenuation (dB/km) | 0.4/0.4/0.3       |

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# Installation and Operating Conditions for RPX® Long Span Ribbon Cable-250

| Installation @ 1.0% Sag |         |                 | NESC Light          |                         |                    |                                      |                           | NESC Medium         |                         |                    |                                      |                           | NESC Heavy          |                         |                    |                                      |                           |
|-------------------------|---------|-----------------|---------------------|-------------------------|--------------------|--------------------------------------|---------------------------|---------------------|-------------------------|--------------------|--------------------------------------|---------------------------|---------------------|-------------------------|--------------------|--------------------------------------|---------------------------|
| Span (ft/m)             | Sag (%) | Tension (lbf/N) | Max Tension (lbf/N) | Max Mid Span Sag (ft/m) | Blow-Out Angle (°) | Max Vertical Sag (ft/m) <sup>1</sup> | Max Horizontal Sag (ft/m) | Max Tension (lbf/N) | Max Mid Span Sag (ft/m) | Blow-Out Angle (°) | Max Vertical Sag (ft/m) <sup>1</sup> | Max Horizontal Sag (ft/m) | Max Tension (lbf/N) | Max Mid Span Sag (ft/m) | Blow-Out Angle (°) | Max Vertical Sag (ft/m) <sup>1</sup> | Max Horizontal Sag (ft/m) |
| 25 / 7.6                | 1.0     | 24 / 106        | 113 / 503           | 0.4 / 0.1               | 82                 | 0.2 / 0.1                            | 0.4 / 0.1                 | 137 / 610           | 0.4 / 0.1               | 47                 | 0.4 / 0.1                            | 0.3 / 0.1                 | 199 / 883           | 0.5 / 0.2               | 35                 | 0.5 / 0.2                            | 0.3 / 0.1                 |
| 50 / 15.2               | 1.0     | 48 / 211        | 188 / 838           | 1.0 / 0.3               | 82                 | 0.5 / 0.2                            | 1.0 / 0.3                 | 225 / 1002          | 1.1 / 0.3               | 47                 | 1.0 / 0.3                            | 0.8 / 0.2                 | 321 / 1427          | 1.3 / 0.4               | 35                 | 1.2 / 0.4                            | 0.7 / 0.2                 |
| 75 / 22.9               | 1.0     | 71 / 317        | 253 / 1127          | 1.6 / 0.5               | 82                 | 0.9 / 0.3                            | 1.6 / 0.5                 | 301 / 1338          | 1.8 / 0.5               | 47                 | 1.6 / 0.5                            | 1.3 / 0.4                 | 425 / 1891          | 2.1 / 0.7               | 35                 | 2.1 / 0.6                            | 1.2 / 0.4                 |
| 100 / 30.5              | 1.0     | 95 / 423        | 313 / 1391          | 2.4 / 0.7               | 82                 | 1.2 / 0.4                            | 2.3 / 0.7                 | 369 / 1643          | 2.6 / 0.8               | 47                 | 2.3 / 0.7                            | 1.9 / 0.6                 | 520 / 2311          | 3.1 / 1.0               | 35                 | 3.0 / 0.9                            | 1.8 / 0.5                 |
| 125 / 38.1              | 1.0     | 119 / 528       | 368 / 1638          | 3.1 / 1.0               | 82                 | 1.6 / 0.5                            | 3.1 / 0.9                 | 433 / 1928          | 3.4 / 1.0               | 47                 | 3.1 / 1.0                            | 2.5 / 0.8                 | 607 / 2701          | 4.2 / 1.3               | 35                 | 4.0 / 1.2                            | 2.4 / 0.7                 |
| 150 / 45.7              | 1.0     | 143 / 634       | 421 / 1872          | 3.9 / 1.2               | 82                 | 1.9 / 0.6                            | 3.9 / 1.2                 | 494 / 2197          | 4.3 / 1.3               | 47                 | 3.9 / 1.2                            | 3.1 / 1.0                 | 690 / 3069          | 5.3 / 1.6               | 35                 | 5.1 / 1.5                            | 3.0 / 0.9                 |
| 175 / 53.3              | 1.0     | 166 / 740       | 471 / 2096          | 4.8 / 1.5               | 82                 | 2.3 / 0.7                            | 4.7 / 1.4                 | 552 / 2455          | 5.3 / 1.6               | 47                 | 4.8 / 1.5                            | 3.8 / 1.2                 | 769 / 3420          | 6.5 / 2.0               | 35                 | 6.2 / 1.9                            | 3.7 / 1.1                 |
| 200 / 61.0              | 1.0     | 190 / 845       | 520 / 2312          | 5.7 / 1.7               | 82                 | 2.6 / 0.8                            | 5.6 / 1.7                 | 608 / 2703          | 6.3 / 1.9               | 47                 | 5.7 / 1.7                            | 4.5 / 1.4                 | 845 / 3758          | 7.7 / 2.4               | 35                 | 7.4 / 2.2                            | 4.4 / 1.3                 |
| 225 / 68.6              | 1.0     | 214 / 951       | 567 / 2522          | 6.6 / 2.0               | 82                 | 3.0 / 0.9                            | 6.5 / 2.0                 | 662 / 2944          | 7.3 / 2.2               | 47                 | 6.6 / 2.0                            | 5.3 / 1.6                 | 918 / 4084          | 9.0 / 2.7               | 35                 | 8.6 / 2.6                            | 5.1 / 1.6                 |
| 250 / 76.2              | 1.0     | 238 / 1056      | 613 / 2726          | 7.5 / 2.3               | 82                 | 3.4 / 1.0                            | 7.5 / 2.3                 | 714 / 3177          | 8.3 / 2.5               | 47                 | 7.5 / 2.3                            | 6.1 / 1.8                 | 989 / 4400          | 10.3 / 3.1              | 35                 | 9.8 / 3.0                            | 5.9 / 1.8                 |
| 275 / 83.8              | 1.0     | 261 / 1162      | 658 / 2925          | 8.5 / 2.6               | 82                 | 3.8 / 1.1                            | 8.4 / 2.6                 | 765 / 3405          | 9.4 / 2.9               | 47                 | 8.5 / 2.6                            | 6.8 / 2.1                 | 1058 / 4707         | 11.7 / 3.6              | 35                 | 11.1 / 3.4                           | 6.6 / 2.0                 |
| 300 / 91.4              | 1.0     | 285 / 1268      | 702 / 3120          | 9.5 / 2.9               | 82                 | 4.2 / 1.3                            | 9.4 / 2.9                 | 815 / 3627          | 10.5 / 3.2              | 47                 | 9.5 / 2.9                            | 7.6 / 2.3                 | 1126 / 5007         | 13.1 / 4.0              | 35                 | 12.4 / 3.8                           | 7.4 / 2.3                 |
| 325 / 99.1              | 1.0     | 309 / 1373      | 745 / 3312          | 10.5 / 3.2              | 82                 | 4.5 / 1.4                            | 10.4 / 3.2                | 864 / 3845          | 11.7 / 3.6              | 47                 | 10.5 / 3.2                           | 8.5 / 2.6                 | 1192 / 5301         | 14.5 / 4.4              | 35                 | 13.8 / 4.2                           | 8.3 / 2.5                 |
| 350 / 106.7             | 1.0     | 333 / 1479      | 787 / 3500          | 11.5 / 3.5              | 82                 | 4.9 / 1.5                            | 11.4 / 3.5                | 913 / 4059          | 12.8 / 3.9              | 47                 | 11.5 / 3.5                           | 9.3 / 2.8                 | 1256 / 5588         | 16.0 / 4.9              | 35                 | 15.2 / 4.6                           | 9.1 / 2.8                 |
| 375 / 114.3             | 1.0     | 356 / 1585      | 828 / 3684          | 12.6 / 3.8              | 82                 | 5.3 / 1.6                            | 12.4 / 3.8                | 960 / 4269          | 14.0 / 4.3              | 47                 | 12.5 / 3.8                           | 10.2 / 3.1                |                     |                         |                    |                                      |                           |
| 400 / 121.9             | 1.0     | 380 / 1690      | 869 / 3867          | 13.6 / 4.2              | 82                 | 5.7 / 1.7                            | 13.5 / 4.1                | 1006 / 4476         | 15.2 / 4.6              | 47                 | 13.6 / 4.1                           | 11.0 / 3.4                |                     |                         |                    |                                      |                           |
| 425 / 129.5             | 1.0     | 404 / 1796      | 910 / 4046          | 14.7 / 4.5              | 82                 | 6.1 / 1.9                            | 14.6 / 4.4                | 1052 / 4680         | 16.4 / 5.0              | 47                 | 14.7 / 4.5                           | 11.9 / 3.6                |                     |                         |                    |                                      |                           |
| 450 / 137.2             | 1.0     | 428 / 1902      | 949 / 4223          | 15.8 / 4.8              | 82                 | 6.5 / 2.0                            | 15.6 / 4.8                | 1097 / 4881         | 17.7 / 5.4              | 47                 | 15.8 / 4.8                           | 12.8 / 3.9                |                     |                         |                    |                                      |                           |
| 475 / 144.8             | 1.0     | 451 / 2007      | 989 / 4398          | 16.9 / 5.2              | 82                 | 6.9 / 2.1                            | 16.7 / 5.1                | 1142 / 5079         | 18.9 / 5.8              | 47                 | 16.9 / 5.1                           | 13.7 / 4.2                |                     |                         |                    |                                      |                           |
| 500 / 152.4             | 1.0     | 475 / 2113      | 1028 / 4572         | 18.0 / 5.5              | 82                 | 7.3 / 2.2                            | 17.8 / 5.4                | 1186 / 5275         | 20.2 / 6.2              | 47                 | 18.0 / 5.5                           | 14.7 / 4.5                |                     |                         |                    |                                      |                           |
| 525 / 160.0             | 1.0     | 499 / 2219      | 1066 / 4743         | 19.2 / 5.8              | 82                 | 7.7 / 2.3                            | 19.0 / 5.8                |                     |                         |                    |                                      |                           |                     |                         |                    |                                      |                           |
| 550 / 167.6             | 1.0     | 523 / 2324      | 1104 / 4912         | 20.3 / 6.2              | 82                 | 8.1 / 2.5                            | 20.1 / 6.1                |                     |                         |                    |                                      |                           |                     |                         |                    |                                      |                           |
| 575 / 175.3             | 1.0     | 546 / 2430      | 1142 / 5080         | 21.5 / 6.5              | 82                 | 8.5 / 2.6                            | 21.3 / 6.5                |                     |                         |                    |                                      |                           |                     |                         |                    |                                      |                           |
| 600 / 182.9             | 1.0     | 570 / 2536      | 1180 / 5247         | 22.6 / 6.9              | 82                 | 8.9 / 2.7                            | 22.4 / 6.8                |                     |                         |                    |                                      |                           |                     |                         |                    |                                      |                           |

Notes: 1 The maximum of the vertical component of sag in the wind deflected cable and the vertical component of sag in the cable with ice and adder only.

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|                                              |   |   |   |   |   |                        |   |   |   |   |   |    |
|----------------------------------------------|---|---|---|---|---|------------------------|---|---|---|---|---|----|
| <div><div></div><div></div><div></div></div> | E | V | 4 | - | 2 | <div><div></div></div> | L | 0 | 1 | D | 5 | 3  |
| 1                                            | 2 | 3 | 4 |   | 5 | 6                      | 7 | 8 |   | 9 |   | 10 |

1 Select fiber count.

Standard offerings:  
024   072   144  
048   096

2 Defines fiber code.

E = Single-mode (OS2)

3 Defines cable type.

V = RPX® Ribbon Cable-250

4 Defines outer jacket.

4 = GRP/Dielectric

5 Defines subunit split.

2 = 2-fiber splittable  
(24-fibers per ribbon)

6 Select length markings.

3 = Markings in meters  
4 = Markings in ft (standard)

7 Defines tensile strength.

L = 2700 N/600 lbf (standard)  
RPX Long Span

8 Defines performance option code.

01 = Single-mode (OS2)  
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.

D = Gel-Free

10 Defines special requirements.

53 = Standard Print with SOC Code

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## Hardware

| Product Image                                                                     | Corning Product Number | Description                                                                                              |
|-----------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|
|  | RPX-UNIV-DEADEND-1     | RPX® & RPX Long Span Ribbon Cable Universal Dead-End Clamp, stainless steel, mechanical wedge, box of 20 |

## Accessories

| Product Image                                                                                                                                                              | Corning Product Number | Description                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                           | RST-000                | Cable/Fiber Access Tools, Ribbon Splitting Tool                                                                                                                                                                                                                                                 |
|                                                                                           | TKT-RIBBONIZE          | 250 µm 12-fiber ribbonizing toolkit<br>Toolkit Contents:<br><ul style="list-style-type: none"> <li>• SRP</li> <li>• 100 Disposable Ribbonizers</li> <li>• Loctite 4861 Instant Adhesive</li> <li>• Blue tape</li> <li>• Cleaning Fluid</li> <li>• Fiber Wipes</li> <li>• Ziplock Bag</li> </ul> |
|                                                                                         | RPX2-CAT               | RPX Cable Access Tool, includes one replacement blade<br><ul style="list-style-type: none"> <li>• RPX Cable Access Tool</li> <li>• Replacement blade</li> </ul>                                                                                                                                 |
| <br> | RPX2-CAT-BLADE         | RPX Cable Access Tool Replacement Blades<br><ul style="list-style-type: none"> <li>• Replacement blade</li> </ul>                                                                                                                                                                               |

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