

RPX® Ribbon Cable-250

CORNING

Features and Benefits

Gel-free with no filling compound
Eliminates time and labor of cleaning

One-step cable access
Simplifies prep work, no special tools needed

Up to 144 fibers in a compact design
Fits in 1.0 to 1.25-inch inner diameter duct

Each 12-fiber ribbon is individually printed
Easy identification

Standards

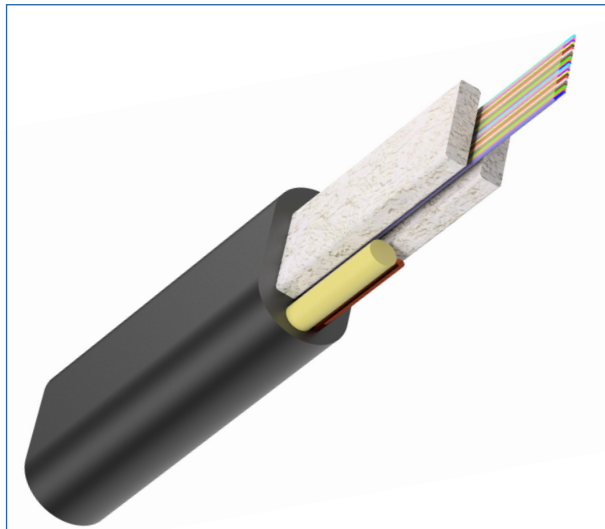
Common Installations Bulk cable: outdoor aerial, duct and direct buried; also typically in distribution segment as part of the FlexNAP™ Terminal Distribution System

Design and Test Criteria ANSI/ICEA S-87-640, Telcordia GR-20

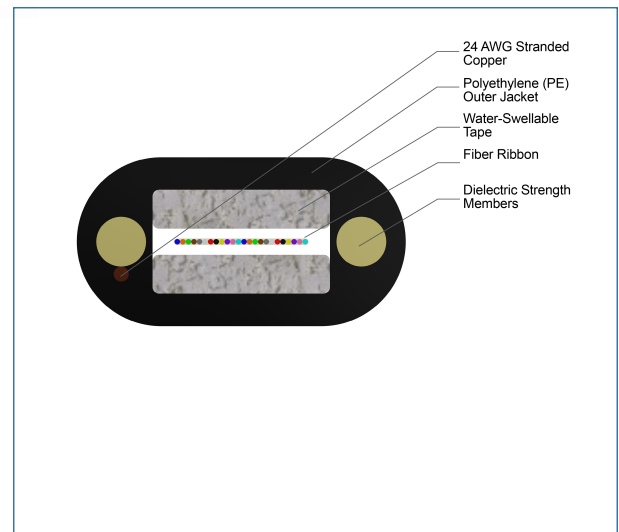
Corning RPX ribbon cable is another innovative breakthrough in cable technology and introduces a new generation of gel-free cables. Providing up to 144 fibers in a rugged, compact design, the coupling features ensure the ribbon stack and cable act as one unit, providing long-term reliability in aerial, duct and direct-buried applications.

The RPX cable is designed with 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.



RPX® Ribbon Cable-250, Toneable, 24-Fibers

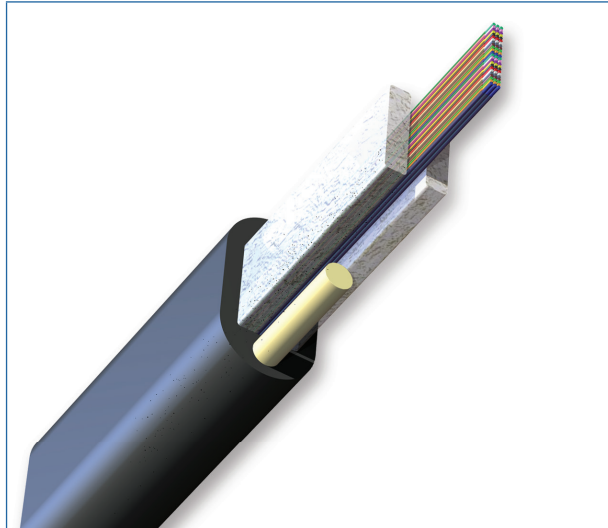


RPX® Ribbon Cable-250, Toneable, 24-Fibers

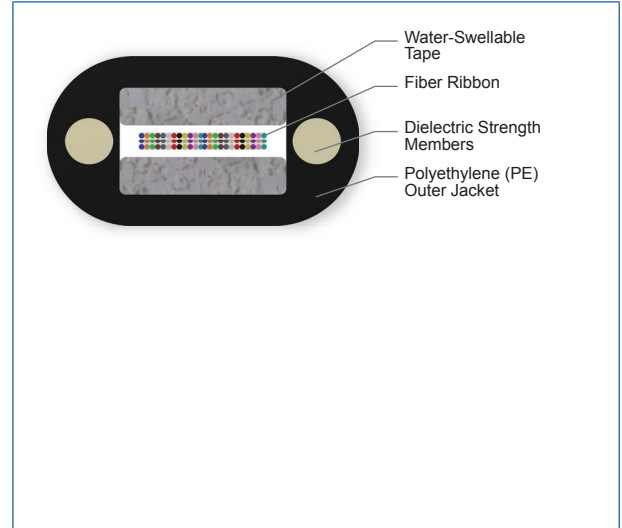
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RPX® Ribbon Cable-250, Dielectric, 72-Fibers



RPX® Ribbon Cable-250, Dielectric, 72-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 Radius Installation	Min. Bend Radius Operation	Weight
Dielectric						
24	15.2 mm x 7.8 mm (0.60 in x 0.31 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	77 kg/km (52 lb/1000 ft)
48	15.2 mm x 7.8 mm (0.60 in x 0.31 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	80 kg/km (54 lb/1000 ft)
72	15.2 mm x 8.2 mm (0.60 in x 0.32 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	85 kg/km (57 lb/1000 ft)
96	15.2 mm x 8.2 mm (0.60 in x 0.32 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	88 kg/km (59 lb/1000 ft)
144	15.2 mm x 8.6 mm (0.60 in x 0.34 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	95 kg/km (64 lb/1000 ft)
Toneable						
24	15.2 mm x 7.8 mm (0.60 in x 0.31 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	79 kg/km (53 lb/1000 ft)
48	15.2 mm x 7.8 mm (0.60 in x 0.31 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	82 kg/km (55 lb/1000 ft)
72	15.2 mm x 8.2 mm (0.60 in x 0.32 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	87 kg/km (58 lb/1000 ft)
96	15.2 mm x 8.2 mm (0.60 in x 0.32 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	90 kg/km (60 lb/1000 ft)
144	15.2 mm x 8.6 mm (0.60 in x 0.34 in)	2700 N (600 lbf)	890 N (200 lbf)	228 mm (9.0 in)	228 mm (9.0 in)	97 kg/km (65 lb/1000 ft)



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Installation Conditions for Dielectric RPX

Span	Initial Installation		NESC Light				NESC Medium				NESC Heavy			
	SAG	Tension	Maximum Operating Tension	Maximum Mid-Span Sag	Blow-Out Angle	Vertical Sag	Maximum Operating Tension	Maximum Mid-Span Sag	Blow-Out Angle	Vertical Sag	Maximum Operating Tension	Maximum Mid-Span Sag	Blow-Out Angle	Vertical Sag
25 ft	1.0 %	20 lbf	89 lbf	0.4 ft	82 °	0.1 ft	112 lbf	0.5 ft	48 °	0.3 ft	162 lbf	0.6 ft	36 °	0.5 ft
50 ft	1.0 %	40 lbf	147 lbf	1.1 ft	82 °	0.2 ft	183 lbf	1.2 ft	48 °	0.8 ft	260 lbf	1.5 ft	36 °	1.2 ft
75 ft	1.0 %	60 lbf	198 lbf	1.8 ft	82 °	0.3 ft	243 lbf	2.0 ft	48 °	1.4 ft	344 lbf	2.5 ft	36 °	2.0 ft
100 ft	1.0 %	80 lbf	244 lbf	2.6 ft	82 °	0.4 ft	299 lbf	2.9 ft	48 °	2.0 ft	420 lbf	3.6 ft	36 °	2.9 ft
125 ft	1.0 %	100 lbf	287 lbf	3.4 ft	82 °	0.5 ft	350 lbf	3.9 ft	48 °	2.6 ft	491 lbf	4.8 ft	36 °	3.9 ft
150 ft	1.0 %	120 lbf	327 lbf	4.3 ft	82 °	0.6 ft	399 lbf	5.0 ft	48 °	3.3 ft	558 lbf	6.1 ft	36 °	5.0 ft
175 ft	1.0 %	140 lbf	367 lbf	5.3 ft	82 °	0.7 ft	446 lbf	6.0 ft	48 °	4.1 ft	622 lbf	7.5 ft	36 °	6.1 ft
200 ft	1.0 %	160 lbf	405 lbf	6.3 ft	82 °	0.9 ft	491 lbf	7.2 ft	48 °	4.8 ft	684 lbf	8.9 ft	36 °	7.3 ft
225 ft	1.0 %	180 lbf	441 lbf	7.3 ft	82 °	1.0 ft	534 lbf	8.4 ft	48 °	5.6 ft				
250 ft	1.0 %	200 lbf	477 lbf	8.3 ft	82 °	1.2 ft	577 lbf	9.6 ft	48 °	6.5 ft				
275 ft	1.0 %	220 lbf	512 lbf	9.4 ft	82 °	1.3 ft	618 lbf	10.8 ft	48 °	7.3 ft				
300 ft	1.0 %	240 lbf	546 lbf	10.5 ft	82 °	1.5 ft	658 lbf	12.1 ft	48 °	8.1 ft				
325 ft	1.0 %	260 lbf	580 lbf	11.6 ft	82 °	1.6 ft	698 lbf	13.4 ft	48 °	9.0 ft				
350 ft	1.0 %	279 lbf	613 lbf	12.7 ft	82 °	1.8 ft								
375 ft	1.0 %	299 lbf	646 lbf	13.8 ft	82 °	2.0 ft								
400 ft	1.0 %	319 lbf	678 lbf	15.0 ft	82 °	2.1 ft								

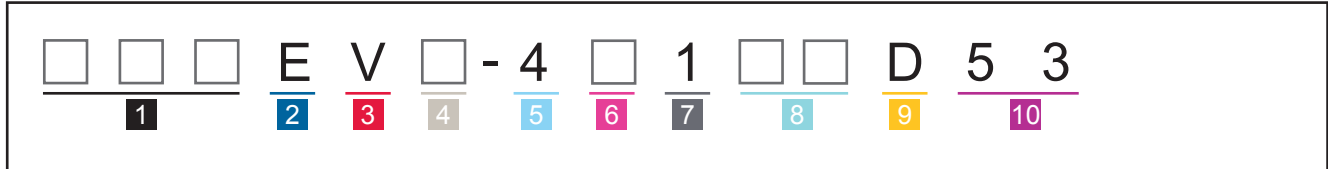
Transmission Performance

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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Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.



- | | | |
|--|---|--|
| <p>1 Select fiber count.
Standard offerings:
024 072 144
048 096</p> <p>2 Select fiber code.
E = Single-mode (OS2)</p> <p>3 Defines cable type.
V = RPX® Ribbon 250</p> | <p>4 Select outer jacket.
4 = GRP/Dielectric
1 = Cu Toneable</p> <p>5 Defines subunit split.
4 = 4-fiber splittable
(24-fibers per ribbon)</p> <p>6 Select length markings.
3 = Markings in meters
4 = Markings in ft (standard)</p> <p>7 Defines tensile strength.
1 = 2700 N/600 lbf (standard)</p> | <p>8 Select performance option code.
01 = Single-mode (OS2)
<small>(Max. attenuation 0.4/0.4/0.3 dB/km)</small></p> <p>9 Defines cable type.
D = Gel-Free</p> <p>10 Defines special requirements.
53 = SOC Code</p> |
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Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC • 28216 • United States
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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