

### **Panduit® Opti-Core® Gel-Free Indoor/Outdoor All-Dielectric Cable**

Panduit® Opti-Core® Gel-Free Indoor/Outdoor Cable is an integral part of the Panduit end-to-end fiber optic solution, designed to support today's data needs while meeting tomorrow's ever-advancing network requirements. This riser rated or plenum rated cable provides UV resistance, water-blocking, high density and easy installation in transitional aerial and duct applications, and entrance facilities. Opti-Core® Gel-Free Indoor/Outdoor Cable is tested in accordance with Telcordia GR-20, Issue 2, GR-409 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables. Opti-Core® 10Gig™ Gel-Free Indoor/Outdoor Cable features the highest quality OM3 laser optimized fiber to support 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems. Standard RoHS multimode and singlemode indoor/outdoor cables are available in 6 and 12-fiber counts in a "central loose tube" design and in 24, 36, 48, 72, 96 and 144-fiber counts in a "stranded loose tube" design.



#### **Key Features**

#### **Benefits**

<b>Indoor/outdoor design</b>	Allows installation using typical loose tube cable methods and hardware; saves space and time by eliminating splices at the cable vault
<b>All-dielectric construction</b>	No metallic elements to bond or ground for applications where armor is not permitted; provides easy access to cable core
<b>UV resistant cable sheathing</b>	Meets the light absorption requirement defined by GR-20 and withstands harsh outdoor environmental demands
<b>Dry water-blocking technology</b>	Allows rapid cable preparation and termination; lower installation costs and time (no messy gel required)
<b>Flexible buffer tube</b>	Superior kink resistance and increased flexibility facilitates route management in closures; eliminates need for closure transportation tubing
<b>Standard designs available</b>	Riser (OFNR) and plenum (OFNP) rated versions in singlemode (OS1/OS2) and multimode (OM1, OM2, and OM3 laser optimized) fiber provide design flexibility and lower cost of ownership
<b>Easy identification</b>	Sheath markings provide positive identification and length verification; buffered fibers and subunits are color-coded in accordance with TIA standard for easy identification
<b>10 Gb/s laser optimized fiber</b>	Provides simple upgrade path for future bandwidth hungry applications without media retrofit; extends the life cycle and reduces cost of ownership

#### **Technical Information**

Performance Measure	Riser
<b>Bend radius</b>	Dynamic: 15 x Cable O.D.; Static: 10 x Cable O.D.
<b>Tensile rating (&lt;12 fibers)</b>	Installation: 300 lb. (1335 N); Long Term: 90 lb. (400 N)
<b>Tensile rating (&gt;12 fibers)</b>	Installation: 600 lb. (2700 N); Long Term: 200 lb. (890 N)
<b>Storage temperature</b>	-40° to 167°F (-40° to 85°C)
<b>Installation temperature</b>	-22° to 140°F (-20° to 60°C)
<b>Operation temperature</b>	-40° to 158°F (-40° to 75°C)
<b>Attenuation</b>	Singlemode: 0.40dB/km @ 1310nm; .30dB/km @ 1550nm Multimode: 3.5dB/km @ 850nm; 1.5dB/km @ 1300nm

# Panduit® Opti-Core® Gel-Free Indoor/Outdoor All-Dielectric Cable

## Ordering Information

Part Number	Part Description	Fiber Count*	Color
<b>Opti-Core® Gel-Free Riser Indoor/Outdoor All-Dielectric Cable (OFNR) – Multimode</b>			
FOCRZ06Y	6-fiber 10Gig™ 50/125µm (OM4) multimode riser rated indoor/outdoor central cable.	6	Aqua
FOCRZ12Y	12-fiber 10Gig™ 50/125µm (OM4) multimode riser rated indoor/outdoor central cable.	12	Aqua
FOCRX06Y	6-fiber 10Gig™ 50/125µm (OM3) multimode riser rated indoor/outdoor central cable.	6	Black
FOCRX12Y	12-fiber 10Gig™ 50/125µm (OM3) multimode riser rated indoor/outdoor central cable.	12	Black
FONRX24Y	24-fiber 10Gig™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	24	Black
FONRX36Y	36-fiber 10Gig™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	36	Black
FONRX48Y	48-fiber 10Gig™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	48	Black
FSCR506Y	6-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor central cable.	6	Black
FSCR512Y	12-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor central cable.	12	Black
FSNR524Y	24-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	24	Black
FSNR536Y	36-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	36	Black
FSNR548Y	48-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	48	Black
FSCR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor central cable.	6	Black
FSCR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor central cable.	12	Black
FSNR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	24	Black
FSNR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	36	Black
FSNR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	48	Black
<b>Opti-Core® Gel-Free Riser Indoor/Outdoor All-Dielectric Cable (OFNR) – Singlemode</b>			
FSCR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor central cable.	6	Black
FSCR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor central cable.	12	Black
FSNR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	24	Black
FSNR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	36	Black
FSNR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	48	Black
<b>Opti-Core® Gel-Free Plenum Indoor/Outdoor All-Dielectric Cable (OFNP) – Multimode</b>			
FOCPZ06Y	6-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated indoor/outdoor central cable.	6	Aqua
FOCPZ12Y	12-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated indoor/outdoor central cable.	12	Aqua
FOCPX06Y	6-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated indoor/outdoor central cable.	6	Aqua
FOCPX12Y	12-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated indoor/outdoor central cable.	12	Aqua
FONPX24Y	24-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	24	Aqua
FONPX36Y	36-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	36	Aqua
FONPX48Y	48-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	48	Aqua
FSCP506Y	6-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor central cable.	6	Orange
FSCP512Y	12-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor central cable.	12	Orange
FSNP524Y	24-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	24	Orange
FSNP536Y	36-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	36	Orange
FSNP548Y	48-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	48	Orange
FSCP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor central cable.	6	Orange
FSCP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor central cable.	12	Orange
FSNP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	24	Orange
FSNP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	36	Orange
FSNP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	48	Orange
<b>Opti-Core® Gel-Free Plenum Indoor/Outdoor All-Dielectric Cable (OFNP) – Singlemode</b>			
FSCP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor central cable.	6	Yellow
FSCP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor central cable.	12	Yellow
FSNP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	24	Yellow
FSNP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	36	Yellow
FSNP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	48	Yellow

\*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers). Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, armoring, premium optical performance grades and ribbonized constructions.

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