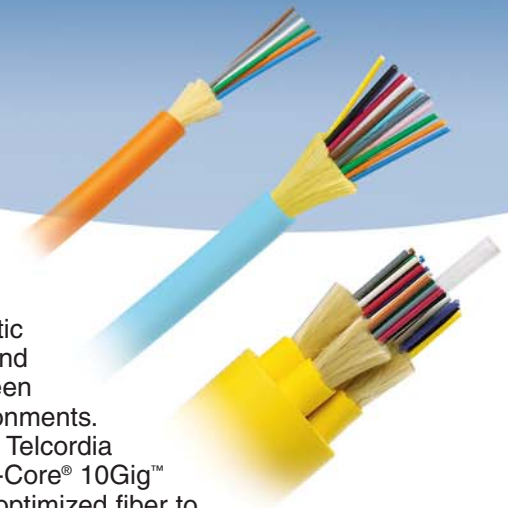


## Opti-Core® Fiber Optic Distribution Cable

Opti-Core® Fiber Optic Distribution 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. Opti-Core® Fiber Optic Distribution Cable is used within buildings to provide high-density connectivity and ease of installation. Applications include intra-building backbones, routing between telecommunications rooms and connectorized cables in riser and plenum environments. Opti-Core® Fiber Optic Distribution Cable meets or exceeds the requirements of Telcordia GR-409 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables. Opti-Core® 10Gig™ Fiber Optic Distribution Cable features the highest quality OM3 and OM4 laser optimized fiber to support 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems. Standard singlemode and multimode distribution cable is available in fiber counts from 6 to 144 fibers. Distribution cable in 6, 12, and 24-fiber counts in a “single jacket” designs feature 900µm tight-buffered fibers surrounded by an aramid yarn strength member. Larger distribution cable (36 fibers and greater) features a “sub-unit” design that simplifies fiber identification, provides easy access and routing of the fibers and increases cable durability with a dielectric central strength member.



### Key Features

### Benefits

<b>Compact versatile design</b>	<ul style="list-style-type: none"> <li>Efficient packaging of higher fiber counts</li> <li>Lightweight and easy to handle during installation</li> <li>Cable design and flexible buffer tubes allow for quick breakout and ease of routing</li> </ul>
<b>Buffered fibers</b>	<ul style="list-style-type: none"> <li>High quality buffering offers ease of stripping while maintaining optical performance</li> </ul>
<b>Easy identification</b>	<ul style="list-style-type: none"> <li>Sheath markings provide positive identification and length verification; buffered fibers and subunits are in accordance with TIA standard for easy identification</li> </ul>
<b>Standard designs available</b>	<ul style="list-style-type: none"> <li>Riser (OFNR) and plenum (OFNP) rated versions</li> <li>Singlemode (OS1/OS2) and multimode (OM1, OM2, OM3 and OM4 laser optimized) fiber provide design flexibility and lower cost ownership</li> </ul>
<b>10 Gb/s laser optimized fiber available</b>	<ul style="list-style-type: none"> <li>Provides simple upgrade path for future bandwidth hungry applications without media retrofit</li> <li>Extends life cycle and reduces cost of ownership</li> </ul>
<b>Custom design options available</b>	<ul style="list-style-type: none"> <li>Low attenuation designs increase network reliability and performance</li> <li>Multimode/singlemode hybrid designs extend life cycle and reduce cost of ownership</li> <li>Indoor/outdoor designs meet specific application requirements</li> <li>Higher fiber count cable provides application flexibility</li> </ul>

### Technical Information

Performance Measure	Riser	Plenum
<b>Bend radius</b>	Dynamic: 20 x Cable O.D. Static: 10 x Cable O.D.	Dynamic: 20 x Cable O.D. Static: 10 x Cable O.D.
<b>Tensile rating (&lt;12 fibers)</b>	Installation: 300 lb. (1335 N) Long Term: 100 lb. (440 N)	Installation: 100 lb. (440 N) Long Term: 30 lb. (132 N)
<b>Tensile rating (&gt;12 fibers)</b>	Installation: 600 lb. (2670 N) Long Term: 180 lb. (800 N)	Installation: 300 lb. (1335 N) Long Term: 100 lb. (440 N)
<b>Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
<b>Installation temperature</b>	-4°F to 158°F (-20°C to 70°C)	32°F to 140°F (0°C to 60°C)
<b>Operation temperature</b>	-4°F to 158°F (-20°C to 70°C)	-4°F to 158°F (-20°C to 70°C)
<b>Attenuation</b>	Singlemode: 0.7dB/km @ 1310 & 1550nm Multimode: 3.5dB/km @ 850nm; 1.5dB/km @ 1300nm	

# Opti-Core™ Fiber Optic Distribution Cable

## Ordering Information

Part Number	Part Description	Fiber Count*	Color
<b>Opti-Core® Riser Distribution Cable (OFNR) – Multimode</b>			
FODRZ06Y	6-fiber 10Gig™ 50/125µm (OM4) multimode riser rated distribution cable.	6	Aqua
FODRZ12Y	12-fiber 10Gig™ 50/125µm (OM4) multimode riser rated distribution cable.	12	Aqua
FODRZ24Y	24-fiber 10Gig™ 50/125µm (OM4) multimode riser rated distribution cable.	24	Aqua
FODRZ36Y	36-fiber 10Gig™ 50/125µm (OM4) multimode riser rated distribution cable; six subunits of six fibers each.	36	Aqua
FODRZ48Y	48-fiber 10Gig™ 50/125µm (OM4) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FODRX06Y	6-fiber 10Gig™ 50/125µm (OM3) multimode riser rated distribution cable.	6	Aqua
FODRX12Y	12-fiber 10Gig™ 50/125µm (OM3) multimode riser rated distribution cable.	12	Aqua
FODRX24Y	24-fiber 10Gig™ 50/125µm (OM3) multimode riser rated distribution cable.	24	Aqua
FODRX36Y	36-fiber 10Gig™ 50/125µm (OM3) multimode riser rated distribution cable; six subunits of six fibers each.	36	Aqua
FODRX48Y	48-fiber 10Gig™ 50/125µm (OM3) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FSDR506Y	6-fiber 50/125µm (OM2) multimode riser rated distribution cable.	6	Orange
FSDR512Y	12-fiber 50/125µm (OM2) multimode riser rated distribution cable.	12	Orange
FSDR524Y	24-fiber 50/125µm (OM2) multimode riser rated distribution cable.	24	Orange
FSDR536Y	36-fiber 50/125µm (OM2) multimode riser rated distribution cable; six subunits of six fibers each.	36	Orange
FSDR548Y	48-fiber 50/125µm (OM2) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Orange
FSDR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	6	Orange
FSDR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	12	Orange
FSDR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	24	Orange
FSDR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated distribution cable; six subunits of six fibers each.	36	Orange
FSDR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Orange
<b>Opti-Core® Riser Distribution Cable (OFNR) – Singlemode</b>			
FSDR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	6	Yellow
FSDR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	12	Yellow
FSDR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	24	Yellow
FSDR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable; six subunits of six fibers each.	36	Yellow
FSDR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable; four subunits of twelve fibers each.	48	Yellow

(continued)

# Opti-Core™ Fiber Optic Distribution Cable

## Ordering Information

Part Number	Part Description	Fiber Count*	Color
<b>Opti-Core® Plenum Distribution Cable (OFNP) – Multimode</b>			
FODPZ06Y	6-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated distribution cable.	6	Aqua
FODPZ12Y	12-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated distribution cable.	12	Aqua
FODPZ24Y	24-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated distribution cable.	24	Aqua
FODPZ36Y	36-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Aqua
FODPZ48Y	48-fiber 10Gig™ 50/125µm (OM4) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FODPX06Y	6-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated distribution cable.	6	Aqua
FODPX12Y	12-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated distribution cable.	12	Aqua
FODPX24Y	24-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated distribution cable.	24	Aqua
FODPX36Y	36-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Aqua
FODPX48Y	48-fiber 10Gig™ 50/125µm (OM3) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FSDP506Y	6-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	6	Orange
FSDP512Y	12-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	12	Orange
FSDP524Y	24-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	24	Orange
FSDP536Y	36-fiber 50/125µm (OM2) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Orange
FSDP548Y	48-fiber 50/125µm (OM2) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Orange
FSDP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	6	Orange
FSDP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	12	Orange
FSDP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	24	Orange
FSDP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Orange
FSDP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Orange
<b>Opti-Core® Plenum Distribution Cable (OFNP) – Singlemode</b>			
FSDP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	6	Yellow
FSDP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	12	Yellow
FSDP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	24	Yellow
FSDP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable; six subunits of six fibers each.	36	Yellow
FSDP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable; four subunits of twelve fibers each.	48	Yellow

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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