

## Meets critical NEC riser (OFNR) safety standards

Fiber types and grades available:

Singlemode: (8H) 8.3/125 $\mu$ m High Performance 9.0 MFD Fiber and (8A) 8.3/125 $\mu$ m High Performance 9.3 MFD Fiber

Multimode: (6U) UltraFiber™ 62.5/125 $\mu$ m, (6F) Enhanced FDDI 62.5/125 $\mu$ m, and (5H) High Performance 50/125 $\mu$ m

Numbered subunits and color-coded fibers help ease installation

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight	
			Loaded inch/cm	Unloaded inch/cm	Short term lbs./Newtons	Long term lbs./Newtons	lbs/ 1000'	kg/ 1000m
4 Fiber	R-ØØ4-DS-XY-FSDZZ	.16/4.0	3.2/8.0	1.6/4.1	300/1350	100/445	15	22
6 Fiber	R-ØØ6-DS-XY-FSDZZ	.20/5.3	4.0/10.6	2.0/5.3	300/1350	100/445	16	24
8 Fiber	R-ØØ8-DS-XY-FSDZZ	.22/5.5	4.4/11.2	2.2/5.5	300/1350	100/445	18	27
12 Fiber	R-Ø12-DS-XY-FSDZZ	.22/5.5	4.4/11.2	2.2/5.5	300/1350	100/445	18	27
18-24 Fiber	Available in Heavy-Duty only- see page 53.							
30 Fiber (3 subunits)	R-Ø3Ø-DS-XY-FSDZZ	.58/14.7	12.6/32	6.3/16.0	800/3550	265/1175	118	176
36 Fiber (3 subunits)	R-Ø36-DS-XY-FSDZZ	.58/14.7	12.6/32	6.3/16.0	800/3550	265/1175	118	176
48 Fiber (4 subunits)	R-Ø48-DS-XY-FSDZZ	.58/14.7	12.6/32	6.3/16.0	800/3550	265/1175	118	176
60 Fiber (5 subunits)	R-Ø6Ø-DS-XY-FSDZZ	.70/17.8	14.4/36.8	7.2/18.4	1000/4450	330/1470	186	277
72 Fiber (6 subunits)	R-Ø72-DS-XY-FSDZZ	.77/19.6	14.4/36.8	7.2/18.4	1000/4450	330/1470	183	273
96 Fiber (8 subunits)	R-Ø96-DS-XY-FSDZZ	.80/20.4	16.0/40.8	8.0/20.4	1000/4450	330/1470	223	332
144 Fiber (12 subunits)	R-144-DS-XY-FSDZZ	.98/25.0	19.6/49.8	19.6/9.8	1000/4450	330/1470	288	429
Singlemode/Multimode Composite (4 - 144 fiber)	R-XXX-DS-CM-FSDOR/XYaaa/XYbbb	Custom design - sizes/specs will vary depending on fiber count						



### Variables in the Catalog Number:

XXX = Total Fiber Count  
XY = Fiber Grade

ZZ = Standard Jacket Color

For Composites Only:

Fiber identification colors:

6U (UltraFiber 62.5/125 $\mu$ m)

6F (Enhanced FDDI 62.5/125 $\mu$ m)

8A (8.3/125 $\mu$ m High Performance 9.3 MFD fiber)

OR (Orange- Multimode or Composite cable)

Minimum order required for special colors.

aaa is replaced with singlemode fiber count

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Subunits are numbered for easy identification

5H (50/125 $\mu$ m)

8H (8.3/125 $\mu$ m High Performance 9.0 MFD fiber)

YL (Yellow- Singlemode cable)

bbb is replaced by multimode fiber count

## 12 Fiber Unit

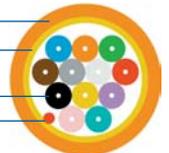
Riser-rated PVC jacket

Aramid yarn

12 fiber subunit with

900 $\mu$ m tight-buffered 250 $\mu$ m fiber

Ripcord



## Riser Distribution Cables

(72 and 12 fiber versions shown)

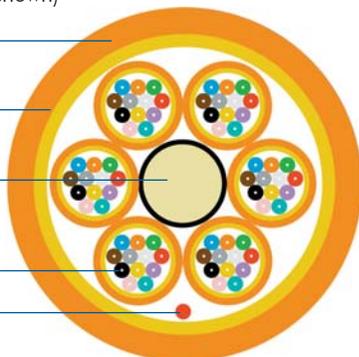
Riser-rated  
PVC jacket

Aramid yarn

Dielectric central member  
(with overcoat)

12 fiber subunit with  
900 $\mu$ m tight-buffered  
250 $\mu$ m fiber

Ripcord



## Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	0 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	> Bellcore GR-409
Impact Resistance	> Bellcore GR-409
Flexing	> Bellcore GR-409
Twist/Bend	> Bellcore GR-409

# Premises Cables

## Riser and plenum-rated designs for indoor applications

CommScope premises cables were engineered with two goals in mind - excellent mechanical/optical performance coupled with superior fire safety ratings. These goals are achieved in a family of cables that meet all critical NEC/CEC requirements for riser or plenum applications while offering unique resistance to installation and termination stresses.

Our distribution cables are a perfect example of this achievement. Subunits of 12 fibers are engineered into constructions that are up to 30% smaller in diameter and 50% lighter than comparable products. The result is a compact cable that installs and terminates easily.

Premises fiber optic cable meet or exceed performance standards as established by Bellcore GR-409, TIA/EIA 568B, ICEA 83-596, ANSI X3.166-1990 & X3T9.5 PMD, FDDI, ATM, Fibre Channel and HIPPI.

We offer several constructions, which include:

**Riser and Plenum Distribution** cables of up to 144 fibers in a lightweight and compact construction.

**Heavy-Duty Riser and Plenum Distribution** cables of 6 to 24 fibers with a robust construction.

**Low Smoke/Zero-Halogen Distribution** cables of up to 24 fibers which can be used outdoor as well, thus eliminating the need to change cable types at the building entrance.

**Riser and Plenum Breakout** cables of up to 24 individually jacketed fibers in a single unit.

**Riser and Plenum Cordage** in simplex, duplex zipcord and two-fiber interconnect.

**Riser and Plenum Cables** will follow Bellcore GR-409 jacket color code specs: single mode is yellow and multimode and composites are orange.



# Fiber Optic Numbering Key



## Steps to build the catalog number for the cable you need!

Let the installation environment determine your cable style.

### Position 1 (Cable Style)

- O ....Outdoor (Arid Core Standard)
- U ....Urethane
- M ....Messenger
- H ....Harsh Environment
- Z.....Zero Halogen
- P.....Plenum
- R.....Riser
- F.....Flooded Stranded Loose Tube

How many fibers do you need?\*

### Positions 2, 3, & 4 (Total Fiber Count)

Total Fiber Count (in increments of two)

\*XXX variable in catalog number.

What cable construction do you want?

### Positions 5 & 6 (Construction)

- LA .....Stranded Loose Tube Armored
- LN .....Stranded Loose Tube Non Armored All Dielectric
- LH .....Stranded Loose Tube Heavy Duty All Dielectric
- L2 .....Stranded Loose Tube Dual Jacket/Single Armor
- L3 .....Stranded Loose Tube Triple Jacket/Dual Armor
- FA .....Fiber Feeder® Armored
- FN .....Fiber Feeder® Non Armored All Dielectric
- FS .....Fiber Feeder (Self Supporting)
- CA.....Central Tube Armored
- CN .....Central Tube Non Armored All Dielectric
- DS.....Distribution
- BO .....Breakout
- DU .....Duplex
- IC .....Interconnect
- ZC.....Zipcord
- SP .....Simplex

What type of fiber does the application require?\*

### Positions 7 & 8 (Fiber Type)

- 8A .....8.3/125µm Singlemode, 9.3 MFD
- 8H .....8.3/125µm Singlemode, 9.0 MFD
- 6U .....62.5/125µm UltraFiber™ Multimode
- 6F.....62.5/125µm Enhanced FDDI Grade Multimode
- 5H .....50/125µm Multimode
- CM .....Composite (Singlemode and Multimode)

\*XY variable in catalog number

Do you want jacket print in feet or meters?

### Position 9 (Unit of Length printed on Jacket)

- F .....Printed in Feet (standard)
- M .....Printed in Meters

### Positions 10 & 11

For cordage, value indicates outside diameter; otherwise additional description

- 01-12.....Fiber Count per Subunit
- HD .....Heavy Duty
- SD .....Standard

### Cordage

- 18 .....1.8 mm Jacket OD
- 20 .....2.0 mm Jacket OD
- 25 .....2.5 mm Jacket OD
- 29 .....2.9 mm Jacket OD

Do you need a co-extruded stripe for tracer?\*

### Positions 12 & 13 (Color Field)

- **Outdoor Cables** (stripe or tracer)  
Outdoor Cables are manufactured with a standard all-black jacket — No Stripe (NS). Stripes (tracers) are also available in the following colors:  
Blue (BL), Green (GR), Orange (OR), Violet (VL), White (WH) and Yellow (YL).
- **Premises, Indoor/Outdoor or Outdoor Tight Buffer Cables** (jacket color)  
Manufactured with the following standard jacket colors:  
Black (BK) - for Indoor/Outdoor and Tight Buffer Outdoor  
Orange (OR) - for Multimode & Composite  
Yellow (YL) - for Singlemode

### Available Non Standard Jacket Colors

(min. order required for non-standard colors):

- |               |               |
|---------------|---------------|
| AQ ....Aqua   | RD .....Red   |
| BK .....Black | RS .....Rose  |
| BL .....Blue  | SL.....Slate  |
| BR .....Brown | VL.....Violet |
| GR.....Green  | WH ....White  |
| OR.....Orange | YL.....Yellow |

\*ZZ variable in catalog number.

### Note...

When positions 7 & 8 are CM (composite cables), positions 14-23 are required.

- Position 14 - 15 .....Fiber type 8H or 8A
- Position 16 - 18 .....Fiber Count (aaa variable in catalog number)
- Position 19 - 20 .....Multimode Fiber Type
- Position 21 - 23 .....Fiber Count (bbb variable in catalog number)