

Triathlon™ Indoor/Outdoor LSZH Distribution

Low smoke-zero halogen construction permits riser use as well



Black or colored jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR) safety standards

Riser rating eliminates splice points at the building entrance

ARID-CORE® water blocking technology protects fibers from moisture

Low-smoke zero-halogen gives added protection to building occupants and equipment

Tight buffered construction reduces installation cost

Fiber types and grades available:

Singlemode: (8H) 8.3/125µm High Performance 9.0 MFD Fiber and (8A) 8.3/125µm High Performance 9.3 MFD Fiber

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

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 (no central member)	Z-ØØ4-DS-XY-FSDBK	.16/4.0	3.2/8.0	1.6/5.5	300/1350	100/445	15	22
6 Fiber	Z-ØØ6-DS-XY-FSDBK	.21/5.3	4.2/10.6	2.1/5.3	300/1350	100/445	20	30
8 Fiber	Z-ØØ8-DS-XY-FSDBK	.25/6.4	5.0/12.8	2.5/6.4	300/1350	100/445	24	35
12 Fiber	Z-Ø12-DS-XY-FSDBK	.29/7.4	5.8/14.8	2.9/7.4	400/1800	140/600	38	56
18 Fiber	Z-Ø18-DS-XY-FSDBK	.39/9.9	7.8/19.8	3.9/9.9	600/2700	160/710	60	88
24 Fiber	Z-Ø24-DS-XY-FSDBK	.39/9.9	7.8/19.8	3.9/9.9	600/2700	160/710	49	72
Singlemode/Multimode Composite (4 - 24 fiber)	Z-ØØØ-DS-CM-FSDBK/XYaaa/XYbbb Custom design - sizes/specs will vary depending on fiber count							



Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8H (8.3/125µm High Performance 9.0 MFD fiber)
8A (8.3/125µm High Performance 9.3 MFD fiber)
6U (UltraFiber 62.5/125µm)

6F (Enhanced FDDI 62.5/125µm)
5H (50/125µm)

For Composites Only:

aaa is replaced with singlemode fiber count

bbb is replaced by multimode fiber count

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24: repeat color sequence with tracer stripe

Triathlon LSZH Indoor/Outdoor-Riser Distribution Cable

(24 fiber version shown)

Low smoke/zero halogen (LSZH) jacket

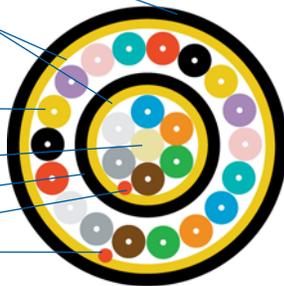
Dielectric strength members/
moisture barrier

900 µm LSZH tight- buffered
250 µm fiber

Dielectric central member

LSZH inner jacket

Ripcords



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-20 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

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)

- OOutdoor (Arid Core Standard)
- UUrethane
- MMessenger
- HHarsh 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)

- LAStranded Loose Tube Armored
- LNStranded Loose Tube Non Armored All Dielectric
- LHStranded Loose Tube Heavy Duty All Dielectric
- L2Stranded Loose Tube Dual Jacket/Single Armor
- L3Stranded Loose Tube Triple Jacket/Dual Armor
- FAFiber Feeder® Armored
- FNFiber Feeder® Non Armored All Dielectric
- FSFiber Feeder (Self Supporting)
- CA.....Central Tube Armored
- CNCentral Tube Non Armored All Dielectric
- DS.....Distribution
- BOBreakout
- DUDuplex
- ICInterconnect
- ZC.....Zipcord
- SPSimplex

What type of fiber does the application require?*

Positions 7 & 8 (Fiber Type)

- 8A8.3/125µm Singlemode, 9.3 MFD
- 8H8.3/125µm Singlemode, 9.0 MFD
- 6U62.5/125µm UltraFiber™ Multimode
- 6F.....62.5/125µm Enhanced FDDI Grade Multimode
- 5H50/125µm Multimode
- CMComposite (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)

- FPrinted in Feet (standard)
- MPrinted in Meters

Positions 10 & 11

For cordage, value indicates outside diameter; otherwise additional description

- 01-12.....Fiber Count per Subunit
- HDHeavy Duty
- SDStandard

Cordage

- 181.8 mm Jacket OD
- 202.0 mm Jacket OD
- 252.5 mm Jacket OD
- 292.9 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):

- | | |
|---------------|---------------|
| AQAqua | RDRed |
| BKBlack | RSRose |
| BLBlue | SL.....Slate |
| BRBrown | VL.....Violet |
| GR.....Green | WHWhite |
| 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 - 15Fiber type 8H or 8A
- Position 16 - 18Fiber Count (aaa variable in catalog number)
- Position 19 - 20Multimode Fiber Type
- Position 21 - 23Fiber Count (bbb variable in catalog number)