



ezMOBILITY™ | Fiber-Copper Composite Cable

Distributed Antenna System (DAS) Applications



Reliable indoor-use cables for data transmission and remote powering of fiber distribution remote units in Distributed Antenna System (DAS) Networks Applications.

Overview

Prysmian Group's ezMOBILITY Indoor Gel Free Loose Tube Plenum composite cable designs facilitate in-building DAS networks. These cables incorporate either 12, 14, or 16 AWG copper conductors for remote powering with color coded loose tube optical fibers for data transmission. The overall installation burden is reduced by integrating these two vital network functions into a common cable sheath. These cables combine a robust, flame retardant jacket material with Prysmian Group's extensive portfolio of single-mode and multimode optical fibers. Because of its application diversity, this advanced product eliminates the necessity/expense for traditional cable transition points once required in legacy systems. This design has been evaluated to the applicable sections of UL 13 (UL Standard for Safety for Power-Limited Circuit Cables).

Product Snapshot

Application	Versatile Indoor Plenum rated cable designed for Distributed Antenna Systems power and data feed requirements. Available with different wire gauge sizes (12, 14, or 16 AWG) to accommodate variety of placement options. Plenum rating with complementary reduced flame and smoke capability.
Construction	Composite
Flame Rating	Plenum (CL2P)
Fiber Count	12
Fiber Types	Single-Mode (Bend-Insensitive) - ITU G.657.A2 & B2, Multimode (50/125-OM3)
Standards	TIA/EIA-568, ANSI/ICEA S-83-596, UL-13, RoHS Compliant

RoHS
Compliant

Prysmian Group
700 Industrial Drive | Lexington, SC 29072
+1-800-879-9862 | +1-800-669-0808 | website: na.prysmiangroup.com/telecom

Features and Benefits

- Integrates copper power conductors with bend-insensitive optical fibers under a common sheath
- Plenum flame listing enables unrestricted routing within available pathways
- Facilitates placement of DAS remote units within buildings
- Fiber identification using TIA standardized color coding
- Gel-free buffer tube simplifies access and reduces prep time
- Flame-retardant, plenum compliant meeting NFPA-262
- Available with bend-insensitive single-mode and multimode optical fibers
- Will support all high performance networks including OM4/10 gigabit ethernet systems

ezMOBILITY™ | Composite Plenum Loose Tube Cable

Indoor Distributed Antenna System (DAS) Applications

ezMOBILITY Composite Plenum Loose Tube (12 AWG) DCLA Series | CLP2

Fiber Count	Number of Conductors	Fillers	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius LOAD inches (cm)	Bend Radius NO LOAD inches (cm)
up to 12	2	2	0.39 (9.9)	99 (147)	7.8 (19.9)	3.9 (9.9)
up to 12	4	0	0.39 (9.9)	147 (218)	7.8 (19.9)	3.9 (9.9)
up to 12	6	0	0.46 (11.7)	214 (319)	9.2 (23.4)	4.6 (11.7)

ezMOBILITY Composite Plenum Loose Tube (14 AWG) DCLB Series | CLP2

Fiber Count	Number of Conductors	Fillers	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius LOAD inches (cm)	Bend Radius NO LOAD inches (cm)
up to 12	2	2	0.33 (8.4)	67 (99)	6.6 (16.8)	3.3 (8.4)
up to 12	4	0	0.33 (8.4)	96 (143)	6.6 (16.8)	3.3 (8.4)
up to 12	6	0	0.39 (9.9)	140 (209)	7.8 (19.9)	3.9 (9.9)

ezMOBILITY Composite Plenum Loose Tube (16 AWG) DCLC Series | CLP2

Fiber Count	Number of Conductors	Fillers	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius LOAD inches (cm)	Bend Radius NO LOAD inches (cm)
up to 12	2	2	0.29 (7.4)	47 (70)	5.8 (14.8)	2.9 (7.4)
up to 12	4	0	0.29 (7.4)	66 (98)	5.8 (14.8)	2.9 (7.4)
up to 12	6	0	0.33 (8.4)	93 (139)	6.6 (16.8)	3.3 (8.4)

Mechanical Specifications

Maximum installation load: 100 lbf (445 N)
 Maximum operation load: 30 lbf (133 N)

Temperature Range

Shipping and Storage: -40° F to +158° F (-40° C to +70° C)
 Installation: +32 F to +140° F (0° C to +60° C)
 Operation: -32° F to +158° F (0° C to +70° C)

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Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

EXAMPLE: ezMobility | Indoor Plenum | 12 BendBright Singlemode fibers per buffer tube | 16 AWG copper conductor (Printed in Feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	DCL	C2P	12	B2	012	E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS
F = Feet or M = Meters
2 PRODUCT FAMILY
DCL = DAS Composite Cable Loose Tube
3a COPPER CONSTRUCTION SIZE
A = 12 AWG
B = 14 AWG
C = 16 AWG
3b NUMBER OF COPPER CONDUCTORS
2 = Two conductors
4 = Four conductors
6 = Six conductors
3c JACKET CONSTRUCTION
P = Single jacket, plenum
4 6 FIBERS PER SUBUNIT
12 = 12f per subunit

FIBER INFORMATION

5 FIBER TYPE				
SINGLE-MODE				
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & B2 & G.652.D)				
MULTIMODE				
	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G5 = OM2+ (50µm)	850/1300	700/500	800/550	150/___
6 FIBER COUNT				
002 to 012 fibers				
7 FIBER GRADE				
SINGLE-MODE				
Attenuation (dB/km)	Wavelength (nm)	Fiber Type		
E1 = 0.4/0.4/0.3	1310/1383/1550	Bend-Insensitive Single-Mode		
MULTIMODE				
Attenuation (dB/km)	Wavelength (nm)	Fiber Type		
M3 = 3.0/1.0	850/1300	OM2+ (50µm)		
Other cable constructions and fiber performance grades available on request.				

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