



ezMOBILITY™ | Fiber-Copper Composite Cable

Security & Distributed Antenna System (DAS) Applications



Reliable indoor-use cables for data transmission and remote powering of fiber distribution remote units in security network.

Overview

Prysmian Group's indoor gel-free loose tube plenum composite cable designs facilitate in-building security 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 security network 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, CE RoHS Compliant



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 security remote units within buildings
- Fiber identification using TIA standardized color coding
- Gel-free buffer tube simplifies access and reduces prep time
- Flame-retardant and 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

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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)

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)

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)

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 in the example.

EXAMPLE: Indoor plenum | 12 singlemode fibers per buffer tube | 16 AWG copper conductor (printed in feet)



PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS F = Feet or M = Meters
2	PRODUCT FAMILY DCL = Security Hybrid 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								
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6	FIBER COUNT 002 to 012 fibers								
7	FIBER GRADE								
	SINGLE-MODE								
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	Other cable constructions and fiber performance grades available on request.								

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