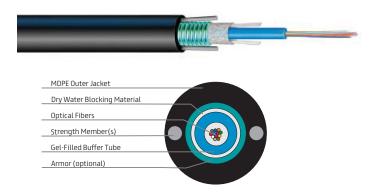
# ezMICROUNITUBE™

Central tube cable (gel)

# Prysmian



#### **OVERVIEW**

Prysmian's ezMICROUNITUBE™ cables combine fiber bundles into a single central buffer tube. Users gain quick access to all fibers, with fiber bundles separated by color-coded binder threads. All ezMICROUNITUBE™ cables utilize longitudinal strength members for robust tensile strength and anti-buckling. Steel members are used with armored cable, dielectric is used with non-armored cable. The combination of adhesive armor, a flexible core tube, swellable water-blocking make ezMICROUNITUBE™ the easiest central tube cable to access and preparation.

## SPECIFICATIONS / RATINGS

**Applications** Multi-purpose outdoor, aerial lashed, duct, direct

buried

**Constructions** Dielectric, armored

**Fiber Count** 2 to 24 fibers in fiber bundles separated by color-

coded binder threads

**Fiber Types** Single-mode / bend-insensitive / NZDSF /

multimode / hybrid

**Options** Gel buffer tubes

Standards ANSI / ICEA 640, RUS 7 CFR 755 (RUS Listed),

Telcordia GR-20

**Registered** ISO 9001, ISO 14001, TL 9000, and 0HSAS 18001

Supplier



## **FEATURES AND BENEFITS**

## **Cable Entry and Preparation**

- Adhesive bond armor (armored version) greatly improves mid-entry. Ripcord over armor to facilitate access.
- Single core tube allows quick access to fibers
- Flexible routing and termination
- Single 3.0 mm central buffer tube reduces size and bend diameter
- Bend-insensitive single-mode fiber option

#### Multi-Purpose Installation and Use

- Suitable for aerial lashed, duct, and direct buried installation
- Small diameter and light weight extend installation lengths
- Corrugated steel tape armor provides mechanical protection and rodent resistance (armored version)

#### **Reliable Lifetime Performance**

- Proven water-blocking with swellable core tape and gel-filled buffer tube
- Guaranteed standards-based performance

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Fiber Count Range	Recommended Fiber Count	Recommended Part Number	Diameter		Approx. Cable Weight		Bend Radius   Load		Bend Radius   No Load		Max. Reel Length	
		Prysmian*	Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
All-Dielectric (UMH1JKT)												
2 to 12	4	UMH1JKT-12-AA-004-BB	0.35	8.8	40	60	7	18	4	9	41,010	12,500
	6	UMH1JKT-12-AA-006-BB										
	12	UMH1JKT-12-AA-012-BB										
Armored (SP) (UMR1A1J)												
2 to 24	4	UMR1A1J-12-AA-004-BB	0.41	10.3	77	114	8	21	6	15	41,010	12,500
	6	UMR1A1J-12-AA-006-BB										
	12	UMR1A1J-12-AA-012-BB										
	24	UMR1A1J-24-AA-024-BB										

<sup>\*</sup> Where AA equals glass type and BB equals attenuation

#### Installation

Maximum installation load: 600 lbf (2700 N) Maximum operation load: 180 lbf (800 N)

#### Temperature Range

Shipping and Storage: -40° F to +167° F (-40° C to +75° C)

Installation: -22° F to +140° F (-30° C to +60° C)

Operation: -40° F to +158° F (-40° C to +70° C)

#### Mechanical Performance (per ICEA 640 and Telcordia GR20)

Short Term Compression: 220 N/cm over 10 cm (125 lb/in over 4 inches)
Long Term Compression: 110 N/cm over 10 cm (62.5 lb/in over 4 inches)
Impact Load: 4.4 Nm

## **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:** ezMICROUNITUBE, single armor single jacket with 12 single-mode fibers (printed in feet)



# PART NUMBER CONSTRUCTION **LENGTH MARKINGS** F = Feet or M = Meters **PRODUCT FAMILY** UMR = ezMICROUNITUBE armored with ripcord UMH = ezMICROUNITUBE without ripcord **CONSTRUCTION** 1JKT = Single Jacket 1A1J = Single Armor, Single Jacket **FIBER GROUPING** 12 = 12f per tube 24 = Two 12 fiber binder groups (14 to 24f), amored only **FIBER INFORMATION FIBER TYPE** SINGLE-MODE HB = Single-Mode (ITU G.652 C & D) Low Water Peak ES = Enhanced Single-Mode (ITU G.652 C & D) CE = Corning™ SMF28e+ Single-Mode B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D) B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)

FIBER INFORMATION									
5 FIBER TYPE									
MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)					
G6 = 0M1 (62.5µm)	850/1300	200/500	300/550	33/					
G5 = 0M2+ BIF (50µm)	850/1300	700/500	800	150/					
G3 = 0M3 BIF (50µm)	850/1300	1500/500	1000	300/					
G4 = 0M4 BIF (50µm)	850/1300	3500/500	1100	550/					
6 FIBER COUNT									
001 to 024 fibers									
7 FIBER GRADE									
SINGLE-MODE Attenuation (dB/km)	Wavelen	gth (nm)	Fiber Type						
E1 = 0.40/0.40/0.30	1310/13	83/1550	HB, ES, or CE						
E3 = 0.35/0.35/0.25	1310/13	83/1550	HB, ES, CE, B1, or B2						
MULTIMODE Attenuation (dB/km)	Wavelen	gth (nm)	Fiber Type						
M2 = 3.5/1.0	850/	1300	OM1 (62.5μm)						
M3 = 3.0/1.0	850/	1300	0M2+,	0M2+, 0M3, 0M4 (50μm)					

 $Other \, cable \, constructions \, and \, fiber \, performance \, grades \, available \, on \, request.$