



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 Supplier** ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



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

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)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number	Diameter (Inches)	Diameter (mm)	Approx. Cable Weight (lb/kft)	Approx. Cable Weight (kg/km)	Bend Radius Load (Inches)	Bend Radius Load (cm)	Bend Radius No Load (inches)	Bend Radius No Load (cm)	Max. Reel Length (feet)	Max. Reel Length (meters)
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)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number	Diameter (Inches)	Diameter (mm)	Approx. Cable Weight (lb/kft)	Approx. Cable Weight (kg/km)	Bend Radius Load (Inches)	Bend Radius Load (cm)	Bend Radius No Load (inches)	Bend Radius No Load (cm)	Max. Reel Length (feet)	Max. Reel Length (meters)
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										

* 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)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	UMH	1A1J	12	HB	012	E3

PART NUMBER CONSTRUCTION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	UMR = ezMICROUNITUBE armored with ripcord UMH = ezMICROUNITUBE without ripcord
3 CONSTRUCTION	1JKT = Single Jacket 1A1J = Single Armor, Single Jacket
4 FIBER GROUPING	12 = 12f per tube 24 = Two 12 fiber binder groups (14 to 24f), armored only
FIBER INFORMATION	
5 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 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
	G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
	G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
	G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
6 FIBER COUNT	001 to 024 fibers				
7 FIBER GRADE	SINGLE-MODE	Wavelength (nm)	Fiber Type		
	E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE		
	E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, or B2		
	MULTIMODE	Wavelength (nm)	Fiber Type		
	M2 = 3.5/1.0	850/1300	OM1 (62.5µm)		
	M3 = 3.0/1.0	850/1300	OM2+, OM3, OM4 (50µm)		

Other cable constructions and fiber performance grades available on request.