

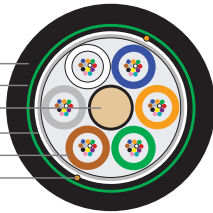
# LT 2.0 with Bend Insensitive Fiber

Dry loose tube cable

# Prysmian



MDPE Outer Jacket  
ezPrep® Corrugated Steel Armor (optional)  
Central Strength Member  
Water Blocking Tape  
2.0 mm Dry Buffer Tube  
Ripcord



## OVERVIEW

A compact, bend-optimized solution for the outside plant, LT2.0 is a multi-purpose loose tube cable offering a 10% to 20% reduction in diameter depending on the design and up to 30% reduction in weight while meeting or exceeding RUS/RDUP and GR20 industry standards. This product platform utilizes ITU G657.A2 bend-insensitive single-mode fiber to deliver superior bending tolerance and cold temperature performance.

## SPECIFICATIONS / RATINGS

|                             |  |
|-----------------------------|--|
| <b>Applications</b>         | Multi-purpose outdoor, aerial lashed, duct, direct buried                            |
| <b>Constructions</b>        | Dielectric, armored, double armored, dual jacket (armored designs)                   |
| <b>Fiber Count</b>          | 4 to 456 fibers in color-coded buffer tubes  |
| <b>Fiber Types</b>          | G657.A2 bend-insensitive single-mode   |
| <b>Options</b>              | Gel buffer tubes   |
| <b>Similar Alternatives</b> | Loose tube with 2.5 buffer tubes for indoor, outdoor, or indoor-outdoor applications |
| <b>Standards</b>            | ICEA 640, RUS 7 CFR 1755, Telcordia GR-20, and IEC 60794-3-11                        |
| <b>Registered Supplier</b>  | ISO 9001, ISO 14001, TL 9000, and OHSAS 18001  |



## FEATURES AND BENEFITS

### Up to 20% Smaller Than Standard Loose Tube cable

- Counts up to 456 can be placed in a 1-inch duct
- Smaller, less-expensive duct can be used
- Can be placed into occupied ducts

### Improved reel capacities

- Up to 40% more cable on a reel
- Longer lengths can be installed from the same reel or smaller, lighter reels can be used
- Saves money on storage & overcomes pay-off limitations

### Up to 30% Lighter Than Standard Loose Tube Cable

- Easier to handle during installation
- Less load on aerial structures
- Further reduces total weight (reel + cable)

### Smaller Cable Bend Radius

- Easier to install in tight spaces
- Allows use of smaller pedestals and hand-holes

### RDUP/RUS PE90 Compliant Cable and Buffer Tube

- Up to 16 feet of tube can be stored in closures

### Smaller Buffer Tube Bend Radius

- Flexible 2.0 mm tube is highly kink-resistant
- Can be stored in a 20 mm radius
- More tube can be stored in a small space
- Allows use of smaller splice trays and closures

### Bend-Insensitive Fiber

- ITU G657.A2 fiber is rated for bends down to 7.5 mm
- Fully compliant to G.652.D SSMF specs
- Complies with G.657.A2

### Improved Cable Entry and Preparation

- Dry option simplifies access and clean-up
- ezPREP® armor greatly improves mid-sheath cable entry
- Dual ripcords speed armored cable entry and outer jacket removal
- Dry core design speeds cable preparation

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## All-Dielectric (Non-Armored) Dry Tube (E2D1JKT)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2D1JKT-12-AA-006-BB                 | 6                 | 0.37     | 9.5  | 41                   | 61    | 8                  | 19 | 4                     | 10 | 41,010           | 12,500 |
|                   | 12                      | E2D1JKT-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2D1JKT-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2D1JKT-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2D1JKT-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2D1JKT-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2D1JKT-12-AA-096-BB                 | 8                 | 0.42     | 10.6 | 50                   | 75    | 8                  | 21 | 4                     | 11 | 41,010           | 12,500 |
| 98 to 120         | 120                     | E2D1JKT-12-AA-120-BB                 | 10                | 0.45     | 11.5 | 59                   | 88    | 9                  | 23 | 5                     | 12 | 41,010           | 12,500 |
| 122 to 144        | 144                     | E2D1JKT-12-AA-144-BB                 | 12                | 0.50     | 12.7 | 73                   | 108   | 10                 | 25 | 5                     | 13 | 41,010           | 12,500 |
| 156 to 216        | 216                     | E2D1JKT-12-AA-216-BB                 | 18                | 0.53     | 13.4 | 75                   | 112   | 11                 | 27 | 5                     | 13 | 41,010           | 12,500 |
| 228 to 264        | 264                     | E2D1JKT-12-AA-264-BB                 | 22                | 0.56     | 14.1 | 84                   | 125   | 11                 | 28 | 6                     | 14 | 41,010           | 12,500 |
| 276 to 288        | 288                     | E2D1JKT-12-AA-288-BB                 | 24                | 0.58     | 14.7 | 92                   | 136   | 12                 | 29 | 6                     | 15 | 41,010           | 12,500 |
| 290 to 456        | 456                     | E2D1JKT-12-AA-432-BB                 | 38                | 0.70     | 17.8 | 130                  | 194   | 14                 | 35 | 7                     | 18 | 40,248           | 12,268 |

## Single Jacket Armored (SP) Dry Tube (E2D1A1J)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2D1A1J-12-AA-006-BB                 | 6                 | 0.44     | 11.2 | 85                   | 127   | 9                  | 22 | 4                     | 11 | 41,010           | 12,500 |
|                   | 12                      | E2D1A1J-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2D1A1J-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2D1A1J-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2D1A1J-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2D1A1J-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2D1A1J-12-AA-096-BB                 | 8                 | 0.48     | 12.2 | 101                  | 151   | 10                 | 24 | 5                     | 12 | 41,010           | 12,500 |
| 98 to 120         | 120                     | E2D1A1J-12-AA-120-BB                 | 10                | 0.54     | 13.8 | 124                  | 185   | 11                 | 28 | 5                     | 14 | 41,010           | 12,500 |
| 122 to 144        | 144                     | E2D1A1J-12-AA-144-BB                 | 12                | 0.60     | 15.3 | 144                  | 215   | 12                 | 31 | 6                     | 15 | 41,010           | 12,500 |
| 156 to 216        | 216                     | E2D1A1J-12-AA-216-BB                 | 18                | 0.60     | 15.3 | 137                  | 204   | 12                 | 31 | 6                     | 15 | 41,010           | 12,500 |
| 228 to 264        | 264                     | E2D1A1J-12-AA-264-BB                 | 22                | 0.64     | 16.3 | 158                  | 235   | 13                 | 33 | 6                     | 16 | 41,010           | 12,500 |
| 276 to 288        | 288                     | E2D1A1J-12-AA-288-BB                 | 24                | 0.66     | 16.8 | 165                  | 245   | 14                 | 35 | 7                     | 17 | 41,010           | 12,500 |
| 290 to 456        | 456                     | E2D1A1J-12-AA-432-BB                 | 38                | 0.76     | 19.4 | 201                  | 299   | 15                 | 39 | 8                     | 19 | 33,506           | 10,213 |

## Double Jacket Single Armored (PSP) Dry Tube (E2D1A2J)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2D1A2J-12-AA-006-BB                 | 6                 | 0.49     | 12.5 | 100                  | 150   | 10                 | 25 | 5                     | 13 | 41,010           | 12,500 |
|                   | 12                      | E2D1A2J-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2D1A2J-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2D1A2J-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2D1A2J-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2D1A2J-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2D1A2J-12-AA-096-BB                 | 8                 | 0.52     | 13.3 | 111                  | 165   | 10                 | 27 | 5                     | 13 | 41,010           | 12,500 |
| 98 to 120         | 120                     | E2D1A2J-12-AA-120-BB                 | 10                | 0.58     | 14.8 | 134                  | 200   | 12                 | 30 | 6                     | 15 | 41,010           | 12,500 |
| 122 to 144        | 144                     | E2D1A2J-12-AA-144-BB                 | 12                | 0.62     | 15.8 | 151                  | 225   | 12                 | 32 | 6                     | 16 | 41,010           | 12,500 |
| 156 to 216        | 216                     | E2D1A2J-12-AA-216-BB                 | 18                | 0.63     | 16.1 | 151                  | 225   | 13                 | 32 | 6                     | 16 | 41,010           | 12,500 |
| 228 to 264        | 264                     | E2D1A2J-12-AA-264-BB                 | 22                | 0.68     | 17.3 | 170                  | 253   | 14                 | 35 | 7                     | 17 | 41,010           | 12,500 |
| 276 to 288        | 288                     | E2D1A2J-12-AA-288-BB                 | 24                | 0.72     | 18.3 | 177                  | 264   | 14                 | 36 | 7                     | 18 | 37,916           | 11,557 |
| 290 to 456        | 456                     | E2D1A2J-12-AA-432-BB                 | 36                | 0.82     | 20.9 | 228                  | 339   | 16                 | 42 | 8                     | 21 | 29,793           | 8,990  |

\* Where AA equals glass type and BB equals attenuation

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## Dielectric Double Jacket (PDP) Dry Tube (E2DNA2J)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2DNA2J-12-AA-006-BB                 | 6                 | 0.42     | 10.8 | 54                   | 80    | 8                  | 22 | 4                     | 11 | 41,010           | 12,500 |
|                   | 12                      | E2DNA2J-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2DNA2J-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2DNA2J-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2DNA2J-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2DNA2J-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2DNA2J-12-AA-096-BB                 | 8                 | 0.47     | 12.0 | 66                   | 97    | 9                  | 24 | 5                     | 12 | 41,010           | 12,500 |
| 98 to 120         | 120                     | E2DNA2J-12-AA-120-BB                 | 10                | 0.52     | 13.5 | 81                   | 120   | 10                 | 27 | 5                     | 13 | 41,010           | 12,500 |
| 122 to 144        | 144                     | E2DNA2J-12-AA-144-BB                 | 12                | 0.57     | 14.5 | 97                   | 144   | 11                 | 29 | 6                     | 15 | 41,010           | 12,500 |
| 156 to 216        | 216                     | E2DNA2J-12-AA-216-BB                 | 18                | 0.57     | 14.5 | 97                   | 144   | 11                 | 29 | 6                     | 15 | 41,010           | 12,500 |
| 218 to 264        | 264                     | E2DNA2J-12-AA-264-BB                 | 22                | 0.63     | 15.9 | 110                  | 164   | 13                 | 32 | 6                     | 16 | 41,010           | 12,500 |
| 266 to 288        | 288                     | E2DNA2J-12-AA-288-BB                 | 24                | 0.65     | 16.5 | 119                  | 178   | 13                 | 33 | 7                     | 17 | 41,010           | 12,500 |

## Double Jacket Double Armored (SPSP) Dry Tube (E2D2A2J)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2D2A2J-12-AA-006-BB                 | 6                 | 0.63     | 16.1 | 178                  | 264   | 13                 | 32 | 6                     | 16 | 41,010           | 12,500 |
|                   | 12                      | E2D2A2J-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2D2A2J-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2D2A2J-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2D2A2J-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2D2A2J-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2D2A2J-12-AA-096-BB                 | 8                 | 0.67     | 17.1 | 203                  | 302   | 13                 | 34 | 7                     | 17 | 41,010           | 12,500 |
| 98 to 120         | 120                     | E2D2A2J-12-AA-120-BB                 | 10                | 0.73     | 18.6 | 239                  | 355   | 15                 | 37 | 7                     | 19 | 37,570           | 11,452 |
| 122 to 144        | 144                     | E2D2A2J-12-AA-144-BB                 | 12                | 0.79     | 20.1 | 270                  | 402   | 16                 | 40 | 8                     | 20 | 31,446           | 9,586  |
| 156 to 216        | 216                     | E2D2A2J-12-AA-216-BB                 | 18                | 0.79     | 20.1 | 263                  | 391   | 16                 | 40 | 8                     | 20 | 31,446           | 9,586  |
| 218 to 264        | 264                     | E2D2A2J-12-AA-264-BB                 | 22                | 0.83     | 21.1 | 291                  | 433   | 17                 | 42 | 8                     | 21 | 29,088           | 8,867  |
| 266 to 288        | 288                     | E2D2A2J-12-AA-288-BB                 | 24                | 0.85     | 21.6 | 304                  | 452   | 17                 | 43 | 9                     | 22 | 27,510           | 8,386  |

## Triple Jacket Double Armored (PSPSP) Dry Tube (E2D2A3J)

| Fiber Count Range | Recommended Fiber Count | Recommended Part Number<br>Prysmian* | # of Buffer Tubes | Diameter |      | Approx. Cable Weight |       | Bend Radius   Load |    | Bend Radius   No Load |    | Max. Reel Length |        |
|-------------------|-------------------------|--------------------------------------|-------------------|----------|------|----------------------|-------|--------------------|----|-----------------------|----|------------------|--------|
|                   |                         |                                      |                   | Inches   | mm   | lb/kft               | kg/km | Inches             | cm | inches                | cm | feet             | meters |
| 6 to 72           | 6                       | E2D2A3J-12-AA-006-BB                 | 6                 | 0.68     | 17.3 | 202                  | 301   | 14                 | 35 | 7                     | 17 | 41,010           | 12,500 |
|                   | 12                      | E2D2A3J-12-AA-012-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 24                      | E2D2A3J-12-AA-024-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 36                      | E2D2A3J-12-AA-036-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
|                   | 48                      | E2D2A3J-12-AA-048-BB                 |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 72                | E2D2A3J-12-AA-072-BB    |                                      |                   |          |      |                      |       |                    |    |                       |    |                  |        |
| 74 to 96          | 96                      | E2D2A3J-12-AA-096-BB                 | 8                 | 0.71     | 18.1 | 221                  | 329   | 14                 | 36 | 7                     | 18 | 39,906           | 12,164 |
| 98 to 120         | 120                     | E2D2A3J-12-AA-120-BB                 | 10                | 0.77     | 19.6 | 255                  | 379   | 15                 | 39 | 8                     | 20 | 33,636           | 10,253 |
| 122 to 144        | 144                     | E2D2A3J-12-AA-144-BB                 | 12                | 0.81     | 20.6 | 277                  | 412   | 16                 | 41 | 8                     | 21 | 29,840           | 9,096  |
| 156 to 216        | 216                     | E2D2A3J-12-AA-216-BB                 | 18                | 0.88     | 22.4 | 278                  | 414   | 18                 | 45 | 9                     | 22 | 25,630           | 7,813  |
| 218 to 264        | 264                     | E2D2A3J-12-AA-264-BB                 | 22                | 0.87     | 22.1 | 306                  | 456   | 17                 | 44 | 9                     | 22 | 25,974           | 7,917  |
| 266 to 288        | 288                     | E2D2A3J-12-AA-288-BB                 | 24                | 0.91     | 23.2 | 316                  | 470   | 18                 | 45 | 9                     | 23 | 23,784           | 7,250  |

\* 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 +158° F (-30° C to +70° C)  
Operation: -40° F to +158° F (-40° C to +70° C)

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

Minimum installation bend radius: 20 times the cable diameter  
Minimum operating bend radius: 10 times the cable diameter  
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

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# LT 2.0 with Bend Insensitive Fiber

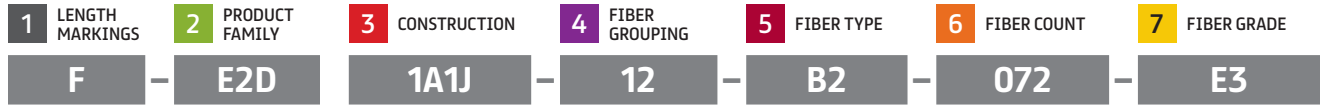
Dry loose tube cable

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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:** LT2.0 dry | single armor, single jacket (12 fibers/tube) with 72 bend-insensitive fibers (printed in feet)



| PART NUMBER CONSTRUCTION           |                        |
|------------------------------------|------------------------|
| <b>1</b>                           | <b>LENGTH MARKINGS</b> |
| F = Feet or M = Meters             |                        |
| <b>2</b>                           | <b>PRODUCT FAMILY</b>  |
| E2D = LT 2.0 Dry                   |                        |
| <b>3</b>                           | <b>CONSTRUCTION</b>    |
| 1JKT = Single Jacket               |                        |
| 1A1J = Single Armor, Single Jacket |                        |
| 1A2J = Single Armor, Dual Jacket   |                        |
| 2A2J = Double Armor, Dual Jacket   |                        |
| 2A3J = Double Armor, Triple Jacket |                        |
| NA2J = Non Armored, Dual Jacket    |                        |
| <b>4</b>                           | <b>FIBER GROUPING</b>  |
| 12 = 12f per tube                  |                        |

| FIBER INFORMATION   |                    |
|---|--------------------|
| <b>5</b>  | <b>FIBER TYPE</b>  |
| <b>SINGLE-MODE</b>  |                    |
| B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D) |                    |
| BX = BendBrightXS Single-Mode (ITU G.657.A2 & B2 & G.652.D)       |                    |
| <b>6</b>  | <b>FIBER COUNT</b> |
| 004 to 456 fibers   |                    |
| <b>7</b>  | <b>FIBER GRADE</b> |
| <b>SINGLE-MODE</b>  |                    |
| Max. Attenuation (dB/km)  | Wavelength (nm)    |
| E3 = 0.35/0.35/0.25   | 1310/1383/1550     |

Other cable constructions and fiber performance grades available on request.