



**Product:** [TU-1D9-012-RI2](#)

Tray, In+Outdoor, DN, OM1, 12f, Non-Unit, AIA, Dbl Jkt, Blk, CPE, OFCR, Oil Res 1/2

Product Description

Tray Grade, Indoor/Outdoor, Distribution, OM1, 12 Fibers, Non-Unit 900um, Aluminum Interlock Armor, Double Jacket, Black, CPE, OFCR, Oil Res 1 & 2

Technical Specifications

Product Overview

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Product Category:      | Fiber Distribution Cable                                                                                                                  |
| Suitable Applications: | Extended Distance Horizontal & Backbone Data/Telco Network, Noisy Environment, Indoor/Outdoor & Wet Locations, Oil Res 1 /2, Rodent Proof |

Fiber Specifications

|                      |                          |
|----------------------|--------------------------|
| Fiber Type:          | OM1                      |
| Fiber Core Diameter: | 62.5/120 µm              |
| Fiber Diameter:      | 250 µm                   |
| Buffer Material:     | PVC - Polyvinyl Chloride |
| Fiber Count:         | 12                       |
| Fiber Color Coding:  | TIA-598-D                |

Cable Construction

|                            |    |
|----------------------------|----|
| Number of Active Subunits: | 1  |
| Fibers Per Subunit:        | 12 |

Inner Jacket Specifications

|                     |                            |
|---------------------|----------------------------|
| Strength Member:    | Waterblocking Aramid Yarns |
| Material:           | PVC - Polyvinyl Chloride   |
| Nom. Diameter:      | 0.260 in (6.6 mm)          |
| Color:              | Black                      |
| Number of Ripcords: | 1                          |

Armor Specifications

|                          |                                |
|--------------------------|--------------------------------|
| Armor Type and Material: | AIA - Aluminum Interlock Armor |
|--------------------------|--------------------------------|

Outer Jacket Specifications

|                  |                                |
|------------------|--------------------------------|
| Jacket Material: | CPE - Chlorinated Polyethylene |
| Nom. Diameter:   | 0.570 in (14.5 mm)             |

Optical Characteristics

| Wavelength                             | 850 nm     | 1300 nm    |
|----------------------------------------|------------|------------|
| Max. Attenuation                       | 3.5 dB/km  | 1.25 dB/km |
| 1 Gigabit Ethernet Performance         | 300 m      | 550 m      |
| 10 Gigabit Ethernet Performance        | 33 m       | -          |
| Min. Restricted Mode Launch            | 220 MHz.km | -          |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz.km | 500 MHz.km |

Mechanical Characteristics

|                                            |                         |
|--------------------------------------------|-------------------------|
| Min. Bend Radius During Installation:      | 20x Cable OD            |
| Min. Bend Radius During Operation:         | 10x Cable OD            |
| Max. Tensile Strength During Installation: | 660 N (150 lbf)         |
| Max. Tensile Strength During Operation:    | 200 N (45 lbf)          |
| Crush Resistance:                          | 440 N/cm                |
| Bulk Cable Weight:                         | 135 lbs/kft (201 kg/km) |

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range:    | -50°C to +70°C |
| Storage Temperature Range:      | -50°C to +70°C |

Standards and Compliance

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance, Oil Resistance, Burial |
| Sustainability:                  | CA Prop 65                                                  |
| Flammability / Reaction to Fire: | OFCR, FT4                                                   |
| ICEA Compliance:                 | S-104-696                                                   |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.14 Revision Date: 11-14-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type    | UPC          |
|-----------------|-------|---------------|--------------|
| TU-1D9-012-RI2N | Black | Cut to Length | 612825485346 |

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