



**Product:** [TF-1D9-012-RN5](#) 

Factory, In+Outdoor, DN, OM1, 12f, Non-Unit, Sgl Jkt - PVC, OFNR, Ozone-UV-Oil Res

## Product Description

Factory Grade, Indoor/Outdoor, Distribution, OM1, 12 Fibers, Non-Unit 900um, Single Jacket - PVC, OFNR, Ozone-UV-Oil Resistant

## Technical Specifications

### Product Overview

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

### Fiber Specifications

|                      |                          |
|----------------------|--------------------------|
| Fiber Type:          | OM1                      |
| Fiber Core Diameter: | 62.5 µm                  |
| Fiber Diameter:      | 250 µm                   |
| Buffer Material:     | PVC - Polyvinyl Chloride |
| Buffer Diameter:     | 900 µm                   |
| Fiber Count:         | 12                       |
| Fiber Color Coding:  | TIA-598-D                |

### Outer Jacket Specifications

|                  |                            |
|------------------|----------------------------|
| Strength Member: | Waterblocking Aramid Yarns |
| Material:        | PVC - Polyvinyl Chloride   |
| Nom. Diameter:   | 0.260 in (6.6 mm)          |

### Optical Characteristics

| Wavelength                             | 850 nm     | 1300 nm    |
|----------------------------------------|------------|------------|
| Max. Attenuation                       | 3.25 dB/km | 1.0 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:      | 15x Cable OD          |
| Min. Bend Radius During Operation:         | 10x Cable OD          |
| Max. Tensile Strength During Installation: | 1335 N (300 lbf)      |
| Max. Tensile Strength During Operation:    | 400 N (90 lbf)        |
| Crush Resistance:                          | 220 N/cm              |
| Bulk Cable Weight:                         | 27 lbs/kft (40 kg/km) |

### Temperature Range

|                          |                |
|--------------------------|----------------|
| Installation Temp Range: | -10°C to +60°C |
| Operating Temp Range:    | -40°C to +70°C |
| Storage Temp Range:      | -40°C to +70°C |

Standards and Compliance

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | OFNR, FT4                                           |
| ICEA Compliance:                 | S-104-696                                           |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.16 Revision Date: 12-15-2021 |
|----------------------|-------------------------------------------------|

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