



**Product:** [GAAG218](#) 

Outdoor (ADSS) OFC MLT: ARAMID + PE with 6 Tubes of Ø1.9mm 18f MM OM2.

## Product Description

Outdoor dry core (ADSS) optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket. Product feature: This cable has all dielectric and self-supporting properties. Existing out of 6 tubes with a diameter of 1.9mm with 18 fibers (3t x 6f) MM OM2.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Construction Type:     | Multi Loose Tube  |
| Environmental Space:   | Outdoor   |
| Suitable Applications: | All dielectric self-supporting cable (ADSS) for Outdoor use. Particularly suitable for installation between poles with a max span of 150m. Initial sag at 20°C: 1% of span. |

### Construction

#### Fiber Cable Construction

| Fiber Type | Fiber Count | Subunit Color                              |
|------------|-------------|--|
| OM2        | 18          | TIA coding (Gxxxxx.T): Blue, Orange, Green |

|                           |  |
|---------------------------|--|
| Fiber Color Coding:       | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White |
| Central Strength Member:  | GRP  |
| Cable Core Water Tight:   | Yes  |
| Cable Core Waterblocking: | Waterblocking Aramid Yarns + Tape                              |
| Bulk Cable Weight:        | 72 kg/km   |

### SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 3          |
| Number of Subunit Positions: | 6          |
| Fibers Per Subunit:          | 6          |
| Subunit Diameter:            | 1.9 mm     |
| Subunit Waterblocking:       | Gel Filled |

### Jacket Specifications

|                    |               |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
| Type of Armor:     | Non-Armored   |

### Outer Jacket Specifications

#### Outer Jacket

| Material          | Color | Nominal Diameter | Ripcord |
|-------------------|-------|------------------|---------|
| PE - Polyethylene | Black | 10.3 mm          | Yes     |

### Optical Characteristics

|                              |           |
|------------------------------|-----------|
| Max. Attenuation at 1300 nm: | 0.9 dB/km |
| Max. Attenuation at 850 nm:  | 2.9 dB/km |

### Mechanical Characteristics

## Mechanical Tests

| Description   | Tested Standard    | Requirement/Value | According to Family Specification |
|---|--------------------|-------------------|-----------------------------------|
| Cable Min. Bend Radius Installation (Short Term)      | IEC 60794-1-21-E6  | 206 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 206 mm            | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 2550 N (573 lbf)  | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 850 N (191 lbf)   | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 15 kN/m           | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 7.5 kN/m          | IEC 60794-3-10                    |

## Temperature Range

|                                 |                  |
|---------------------------------|------------------|
| Operating Temperature Range:    | -30 °C to +70 °C |
| Installation Temperature Range: | -5 °C to +50 °C  |
| Storage Temperature Range:      | -30 °C to +70 °C |

## Standards

|                                   |                            |
|-----------------------------------|----------------------------|
| UL Rating/Flame Test:             | Non-UL Rated               |
| REACH:                            | Compliant                  |
| ISO/IEC Compliance:               | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant                  |
| UV/ Sunlight Protection:          | Yes                        |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.50 Revision Date: 09-17-2024 |
|----------------------|---|

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