



**Product:** [FKZU54MB024BKAA](#) 

Universal OFC MLT: Dry Tubes (6F/T), Dry Core, Glass Yarn + LSZH Outer Jacket (black) 24f MM OM4. IEC 60332-3-24 rated

## Product Description

Universal (Indoor/Outdoor) Dry tubes (6F/T), Dry core, optical fiber Multi Loose Tube All-dielectric cable with Glass Yarn strength member and FRP central strength member, Low Smoke Zero Halogen outer jacket (black), 24 fibers MM OM4 G.652.D IEC 60332-3-24 rated.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Category:      | Fiber Multi-Loose Tube Cable                                                                                                                                                                                                                                                                                        |
| Suitable Applications: | For outdoor/indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone cabling. For outdoor/indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial. |

### Fiber Specifications

|                        |                                  |
|------------------------|----------------------------------|
| Fiber Type:            | OM4                              |
| Fiber Core Diameter:   | 9 µm                             |
| Fiber Diameter:        | 125 µm                           |
| Fiber Buffer Material: | PBT – Polybutylene Terephthalate |
| Fiber Count:           | 24                               |
| Fiber Color Coding:    | TIA-598-D                        |

### Cable Construction

|                               |                            |
|-------------------------------|----------------------------|
| Number of Active Subunits:    | 4                          |
| Number of Fillers:            | 2                          |
| Fibers Per Subunit:           | 6                          |
| Subunit Waterblocking:        | Gel Free                   |
| Subunit Color:                | TIA-598-D                  |
| Central Strength Member Type: | GRP                        |
| Cable Core Water Blocking:    | Waterblocking Yarns + Tape |

### Armor Specifications

|                          |                             |
|--------------------------|-----------------------------|
| Armor Type and Material: | CST - Corrugated Steel Tape |
|--------------------------|-----------------------------|

### Outer Jacket Specifications

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Jacket Material:    | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 12.1 mm (0.476 in)                              |
| Outer Jacket Color: | Black                                           |

### Optical Characteristics

| Wavelength          | 1310 nm    | 1550 nm    |
|---------------------|------------|------------|
| Max. Attenuation    | 0.36 dB/km | 0.22 dB/km |
| Mode Field Diameter | 9.2 µm     | 10.4 µm    |

### Mechanical Characteristics

|                                          |               |
|------------------------------------------|---------------|
| Minimum Bend Radius During Installation: | 20 x Cable OD |
|------------------------------------------|---------------|

|                                            |                                                        |
|--------------------------------------------|--------------------------------------------------------|
| Minimum Bend Radius During Operation:      | 10 x Cable OD                                          |
| Max. Tensile Strength During Installation: | 2700 N (610 lbf)                                       |
| Max. Tensile Strength During Operation:    | 900 N (200 lbf)                                        |
| Crush Resistance:                          | 2200N/100mm for Short Term & 1100N/100mm for Long Term |

Mechanical Tests

| Description                                           | Tested Standard    |
|-------------------------------------------------------|--------------------|
| Cable Min. Bend Radius Installation (Short Term)      | IEC 60794-1-21-E11 |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  |
| Cable Impact Resistance                               | IEC 60794-1-21-E4  |
| Waterblocking                                         | IEC 60794-F5       |

|                    |                             |
|--------------------|-----------------------------|
| Bulk Cable Weight: | 148 kg/km (99.5 lbs/1000ft) |
|--------------------|-----------------------------|

Temperature Range

|                              |                  |
|------------------------------|------------------|
| Operating Temperature Range: | -40 °C to +70 °C |
| Storage Temperature Range:   | -40 °C to +70 °C |

Standards and Compliance

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, Burial                                                               |
| Flammability / Reaction to Fire: | IEC 60332-3-24                                                                                                         |
| CEC / C(UL) Compliance:          | .                                                                                                                      |
| ISO/IEC Compliance:              | IEC 60793-1-1IEC 60794-1-1                                                                                             |
| European Halogen Free Standards: | IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 , IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance:   | EU Directive 2011/65/EU (RoHS 2)                                                                                       |

History

|                      |                                                |
|----------------------|------------------------------------------------|
| Update and Revision: | Revision Number: 0.4 Revision Date: 08-25-2026 |
|----------------------|------------------------------------------------|

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