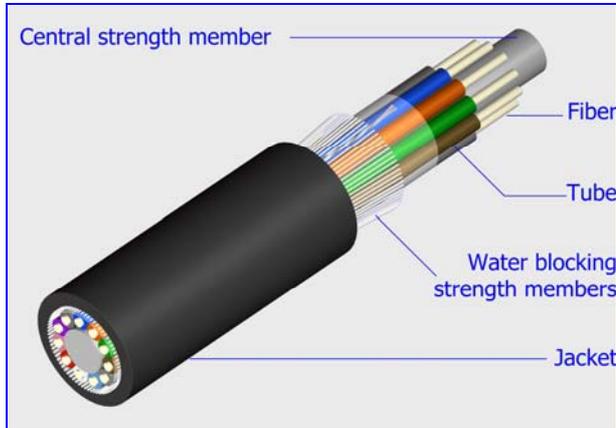


## *MU Series Mini Loose Tube Fiberoptic Cable*



### **APPLICATIONS**

- Long-distance outside plant telephone, CATV as well as data communications
- Direct burial and installation in ducts either by the pulling or by the blowing methods
- Aerial installation as the Figure-8 self supporting option

### **CABLE DESCRIPTION**

The cable consists of 8 to 36 elements. The elements are either single fiber containing tubes, or, when needed, fillers used to preserve cable geometry. The elements are stranded around a central strength member in one, 2 or 3 layers and bound in a jacket. The tubes are filled with a water-blocking gel to prevent water ingress.

A variety of cable water-blocking options is available: gel filling in the core and/or between jacket layers, and dry water-blocking tapes or yarns in the core and/or between jacket layers.

The cables can be ordered with a central member made of either a dielectric FRP, or of PE-coated steel wire. The tubes and fibers are color coded. See Color Code Table.

Three tube diameters are available:

- 1.4 mm - MUA sub-series
- 1.6 mm - MUB sub-series
- 1.8 mm - MUC sub-series

A wide range of jacket options is available: polyethylene, halogen-free flame-retardant material (HFFR / LSOH), corrugated anti-rodent steel armoring, fiberglass armoring, aramid yarn, and more.

A Fig-8 self-supporting cable is available in all fiber-counts.

A ripcord is located under each jacket layer.

### **MECHANICAL PROPERTIES**

Typical properties are given in the Mechanical Properties Table. Actual properties depend on the cable construction.

### **OPTICAL PROPERTIES**

See the Optical Properties Table.

### **MATERIALS**

See information about the materials used in the Teldor Fiberoptic Cables.

### **STANDARDS**

- Cables tested according to TIA/EIA-455 and IEC-60794-1-2. For details see Test Methods Table.
- Cables meet or exceed Telcordia (Bellcore) requirements for outside plant cables (GR-20) when the appropriate options are chosen
- Cables ordered with HFFR jackets meet IEC-60332-1 standard. On request cables meeting the IEC-60332-3 can be supplied.

### **MARKING**

Cables are marked as follows

**Teldor - Fiberoptic Cable - Cable Code - RoHS - Length in Meters**

or per customer request. Fig-8 Self-supported cables do not comply with ROHS.

### **CABLE DIMENSIONS AND WEIGHTS**

See list of most frequently ordered cables next page.

### **ORDERING**

You can find the desired cable in the cable list next page or compose your own cable from the Cable Code Definition and Selection Guide.

Standard cable lengths vary with cable diameter. Other constructions, color codes and materials may be available. Please contact the Teldor Marketing Department.

## *MU Series Technical Tables*

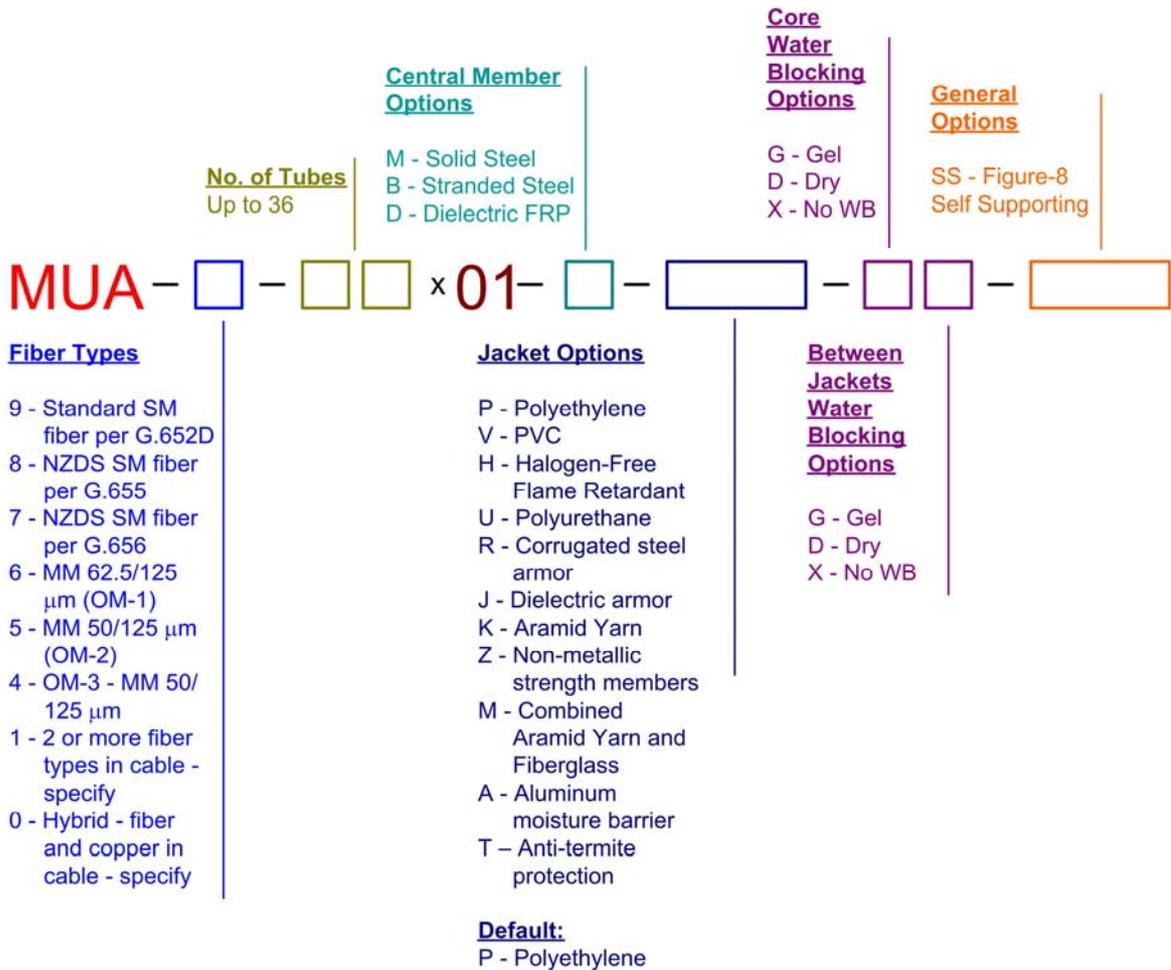
### MU-Series Fiberoptic Cables

Max. Pulling Load	1500 N or the equivalent of the cable weight per km, whichever is higher
Max. Operating Load	60% of the Max. Pulling Load
Max. Compressive Load	3000 N for unarmored, 5000 N for armored
Repeated Impact	2.9 N.m (J) – 3 x 2 impacts
Minimum Bending Radius for Installation	20 times the cable O.D.
Minimum Long Term Bending Radius	20 times the cable O.D. for armored cables, 10 times the cable O.D. for unarmored cables
Twist (Torsion) — Length	180°x10 times , 125 times the cable O.D.
Cyclic Flexing	25 cycles for armored cables, 100 cycles for unarmored cables
Operating Temperature Range	-40°C to +70°C (With PE jacket)
Storage Temperature Range	-50°C to +70°C (With PE jacket)

### Most Frequently Ordered MU Cables Part Numbers, Codes, Dimensions and Weights

Part Number	Cable code	Dimensions (mm)	Weight (kg/km)
45066D05	MUA-6-06X01-D-PRP-GG	13.0	200
451212D56	MUA-6-12X01-D-PRP-GX	14.5	205
451212D6	MUA-6-12x01-D-PRHT-GX	15.0	265
452424D08	MUA-6-24x01-M-PRP-GG	16.5	300

## MU Series Cable Code Definition and Selection Guide



### Remarks

- The default jacket colors are:

	PE	PVC	HFFR
SM Fibers	Black	Yellow	Yellow
MM Fibers	Black	Orange	Orange

Other jacket colors available please specify.