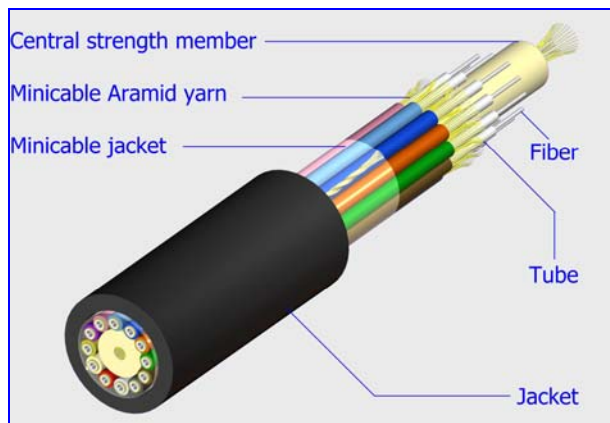


## *MC Series Individually Ruggedized Loose Tube Fiberoptic Cable*



### **APPLICATIONS**

- Both indoor as well as outdoor applications
- Fiber distribution when field termination is required
- As riser or distribution cable for hostile environments

### **CABLE DESCRIPTION**

The cable consists of 2 to 36 coded minicables. Each minicable contains a single fiber loosely laid in a tube filled with a water-blocking gel, aramid yarn around the tube, and a sheath. The standard tube diameter is 1.8 mm and the minicable outer diameter is 2.9 mm. The minicable sheath is either made of HFFR, polyurethane or PVC material. The minicables are stranded in up to 3 layers around a metallic or dielectric central strength member. Fillers are used as needed to preserve the cable geometry.

PVC or HFFR sheathed 2 and 4-fiber cables are supplied, by default, without a central strength member. However these cables are also available in a more rugged construction where fillers are added to complete a 6-member structure.

A wide range of jacket options is available: polyethylene, PVC, halogen-free flame retardant material, 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 to facilitate jacket removal.

### **STANDARDS**

- Cables tested according to TIA/EIA-455 and IEC-60794-1-2. For details see Test Methods Table.

- Cables ordered with PVC or HFFR jackets meet IEC-60332-1 standard.
- On request cables meeting the IEC-60332-3 can be supplied.

### **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.

### **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.

## *MC Series Technical Tables*

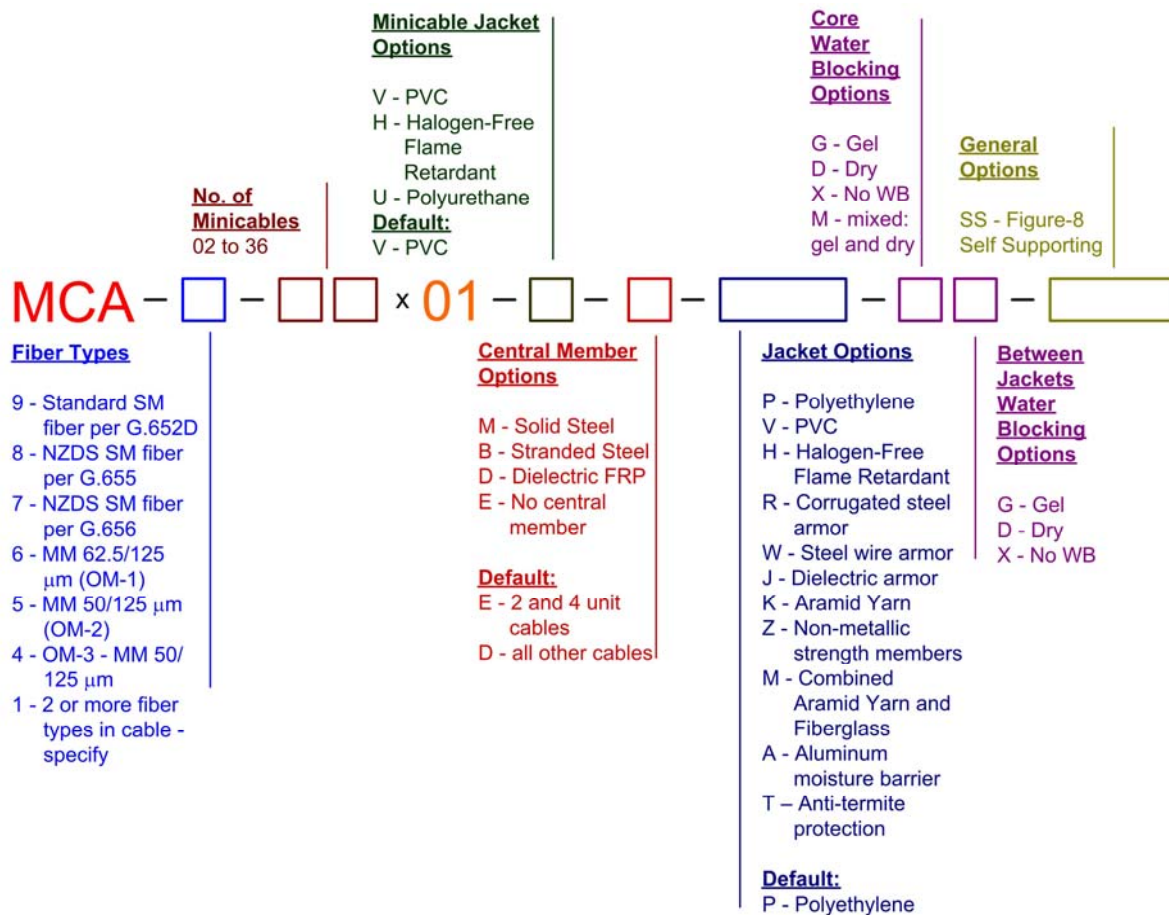
### MC-Series Fiberoptic Cables Typical Mechanical Properties

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	4.4 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 MC Cables Part Numbers, Codes, Dimensions and Weights

Part Number	Cable code	Dimensions (mm)	Weight (kg/km)
<b>MC Series</b>			
45044D34	MCA-6-04x01-V-E-P-X	10.0	70
451212D17	MCA-6-12x01-V-D-P-X	17.5	220
451212D215	MCA-6-12X01-V-D-ZVRP-GX	22.5	440
45066D141	MCA-5-06x01-V-D-H-D	12.5	120
452424D031	MCA-6-24x01-V-D-H-D	21.0	340
44066D02	MCA-9-06x01-V-M-VRP-XX	15.5	250
442424D10	MCA-9-24X01-V-D-VRP-GX	25.0	600

## MC 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.