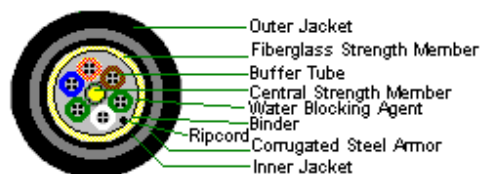**BELDEN**
SENDING ALL THE RIGHT SIGNALS

MLC5008 Fiber - Corrugated Steel Armor Cable, Loose Tube - Outdoor

For more Information
please call

1-800-Belden1

Description:

The heavy-duty armored loose tube cables are designed for direct burial, duct and outside tray applications. They utilize a corrugated steel tape armor barrier combined with two weather-resistant polyethylene jackets to give the maximum protection.

Physical Characteristics (Overall)

Fiber Type:	50/125/245 Micron
Number of Fibers:	8
Core Diameter:	50 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	1% Maximum
Primary Coating Material:	Acrylate
Primary Coating Diameter:	245 +/- 10

Fiber Color Code Chart:

Color
Blue
Orange
Green
Brown
Gray
White

Buffer Tube Diameter:	1.9
Buffer Tube Material:	PBT - Polybutylene Terephthalate
Buffer Tube Filling Material:	Synthetic Thixotropic Gel

Buffer Tube Color Code Chart:

Number	Color
1	Blue
2	Orange

Core-clad Offset:	1.5 Microns Maximum

Inner Jacket
Outer Jacket

Outer Jacket Material:

Outer Jacket Material
MDPE - Medium Density Polyethylene

Outer Jacket Nominal Wall Thickness:	.055
Outer Jacket Ripcord:	Aramid
Outer Jacket Color:	Black

Strength Member

Strength Member Material:	Fiberglass Epoxy Rod, Aramid Yarn

Armor

Armor Type:	Corrugated
Armor Material:	Steel

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Armor Thickness:	.006

Overall Cabling

Overall Cabling Fillers:	Polyethylene
Overall Nominal Diameter:	0.530 in.

Mechanical Characteristics (Overall)

Storage Temperature Range:	-50°C To +80°C
Operating Temperature Range:	-40°C To +70°C
Bulk Cable Weight:	103 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	106 in.
Min. Bend Radius for Long Term Application:	8 in.
Crush Resistance:	Passes TIA/EIA 455-41, 2000 N/cm
Impact Resistance:	Passes TIA/EIA 455-25, 2000 Impacts w/1.6 N-m
Water Penetration:	Passes TIA/EIA 455-82
Compound Flow:	Passes TIA/EIA 455-81
Cyclic Flexing:	Passes TIA/EIA 455-104
Twist Bend:	Passes TIA/EIA 455-85
Max. Load for Installation:	600 lbs.
Max. Load for Long Term Application:	180 lbs.
Proof Test:	100 kpsi

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

IEEE Specification:	802.3Z

Suitability

Suitability - Outdoor:	Excellent
Suitability - Burial:	Excellent
Sunlight Resistance:	High

Plenum/Non-Plenum

Plenum (Y/N):	No

Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.0 dB/km
Maximum Attenuation @ 1300nm:	1.0 dB/km
Point Loss @ 850nm & 1300nm:	.2
Minimum Bandwidth @ 850nm:	500 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Refractive Index @ 850nm:	1.496
Refractive Index @ 1300nm:	1.491
Numerical Aperature:	.2
Maximum Gigabit Ethernet Length @ 850nm:	600
Maximum Gigabit Ethernet Length @ 1300nm:	600

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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Revision Number: 2   Revision Date: 05-14-2007