

NMCU12HA048YEAA

Fiber Optic - Loose Tube - Single PE Jacket

	<p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> <p style="text-align: center;">Related Documents: No.10 for Fiber Optic Cables .pdf</p>
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Cable Characteristics:

DESCRIPTION:

48 optical fibers, Gel filling loose tubes (12f/T), FRP central strength member, Gel filling cable core, Single PE jacket (yellow).

PHYSICAL CHARACTERISTICS:

Fiber Type	125/250 µm
Number of Fibers	48
Number of Fibers per Tube	12
Fiber Color Code Chart:	
Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua
Buffer Tube Diameter	2.6 mm
Buffer Tube Material	PBT – Polybutylene Terephthalate
Buffer Tube Filling Material	Synthetic Thixotropic Gel
Buffer Tube Color Code Chart:	
Number	Color
1	Blue
2	Orange
3	Green
4	Brown

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STRENGTH MEMBER:

Central Strength Member Material	Fiberglass Epoxy Rod
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OVERALL CABLING:

Overall Cabling Fillers	Polypropylene
Cable Core Filling Material	Synthetic Thixotropic Gel

OUTER JACKET:

Outer Jacket Material	PE – Polyethylene
Outer Jacket Nom. Wall Thickness	1.8 mm
Outer Jacket Color	Yellow

OVERALL DIAMETER:

Overall Nominal Diameter	12.0 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 40°C To + 70°C
Storage Temperature Range	- 40°C To + 70°C
Bulk Cable Weight	112 kg/km
Max. Load for Installation	1500 N, Passes IEC794-1
Max. Load for Long Term Application	600 N, Passes IEC794-1
Min Bend Radius for Installation	20 × Cable OD, Passes IEC794-1
Min Bend Radius for Long Term Application	10 × Cable OD, Passes IEC794-1
Crush Resistance	1000 N/100mm, Passes IEC794-1
Impact Resistance	Passes IEC794-1
Solar Radiation Resistance	Passes IEC794-1
Water Penetration	Passes IEC794-1
Compound Flow	Passes IEC794-1
Cyclic Flexing	Passes IEC794-1

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

Specification	IEC 60794-1, EIA/TIA-455
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Aug 2007

SUITABILITY:

Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	Y
Suitability - Aerial (Y/N)	Y
Suitability – Duct (Y/N)	Y

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Suitability – Direct Burial (Y/N)	N
Sunlight Resistance (Y/N)	Y

Optical Characteristics:

SINGLE MODE FIBERS	G652.D (OS2)
Belden Fiber Code	U12
Typical Mode Field Diameter @ 1310nm	9.2 ± 0.4 μm
Typical Mode Field Diameter @ 1550nm	10.4 ± 0.5 μm
Cladding Diameter	125 ± 0.7 μm
Clad Non-Circularity	≤ 0.7 %
Core-Clad Concentricity Error	≤ 0.5 μm
Primary Coating Material	Acrylate
Primary Coating Diameter	245 ± 5 μm
Secondary Color Coating Diameter	250 ± 10 μm
Max. Attenuation @ 1310nm	0.36 dB/km
Max. Attenuation @ 1550nm	0.22 dB/km
Point Loss @ 1310nm & 1550nm	0.05 dB
Zero Dispersion Wavelength	1302 – 1322 nm
Max. Slope @ Zero Dispersion Wavelength	0.090 ps/(nm ² km)
Max. PMD @ Link Design Value	0.1 ps/√ km
Cable Cutoff Wavelength	≤ 1260 nm
Refractive Index @ 1310nm	1.466
Refractive Index @ 1550nm	1.467

PUT-UPS AND COLORS:

Item	# Fibers	Fiber Type	Cable Description	Put-up* (metre)	Jacket Color
NMCU12HA048YEAA	48	G652.D	LOOSE TUBE SINGLE PE JACKET	2000	YELLOW

* Other put-ups available upon request.

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