

BAGUxxQA

Fiber Optic - Central Tube - Glass Yarn/Steel Wire - Armored/Single PE Jacket

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

DESCRIPTION:

6 optical fibers, Central gel filling loose tubes, Flexible non-metallic strength member - glass yarn, two rip cords, CSTA armor, Two Steel Wires Embedded in Single PE jacket (black).

PHYSICAL CHARACTERISTICS:

Fiber Type	125/250 μm
Number of Fibers	6
Fiber Color Code Chart:	
Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	Natural
Buffer Tube Material	PBT – Polybutylene Terephthalate
Buffer Tube Filling Material	Synthetic Thixotropic Gel
STRENGTH MEMBER:	
Strength Member Material	Glass yarn, Two Steel Wire Embedded in Sheath
ARMORING:	
Armor Type	Corrugated
Armor Material	Steel Tape
OUTER JACKET:	
Outer Jacket Material	PE – Polyethylene
Outer Jacket Color	Black

OVERALL DIAMETER:

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Overall Nominal Diameter	8.7 mm
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MECHANICAL CHARACTERISTICS:

Temperature Range	- 40°C To + 70°C
Bulk Cable Weight	85 kg/km
Max. Tensile Force	2000 N
Max. Crush Resistance for 60 seconds	1000 N/100mm, Passes IEC60794-1
Min. Bend Radius	20 × Cable OD

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

Specification	IEC 60794-1,
RoHS Compliant (Y/N)	Y (for outer jacket only)

SUITABILITY:

Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	Y (where waterproof is not strictly required.)
Suitability - Aerial (Y/N)	Y
Suitability – Duct (Y/N)	N
Suitability – Direct Burial (Y/N)	N
Sunlight Resistance (Y/N)	Y

Optical Characteristics:

SINGLE MODE FIBERS	G652.D
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 ±7 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

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Max. Slope @ Zero Dispersion Wavelength	0.092 ps/(nm ² km)
Max. PMD @ Link Design Value	0.1 ps/√ km
Cable Cutoff Wavelength	≤ 1260 nm
Refractive Index @ 1310nm	1.467
Refractive Index @ 1550nm	1.468

MULTI-MODE FIBERS	62.5µm OM1	50µm OM2	50µm OM3
Belden Fiber Code	U62	U50	U53
Typical Core Diameter	62.5 ± 2.5 µm	50.0 ± 2.5 µm	50.0 ± 2.5 µm
Cladding Diameter	125 ± 1.0 µm	125 ± 1.0 µm	125 ± 1.0 µm
Clad Non-Circularity	≤ 1 %	≤ 1 %	≤ 1 %
Core-Clad Concentricity Error	≤ 1.0 µm	≤ 1.0 µm	≤ 1.0 µm
Primary Coating Material	Acrylate	Acrylate	Acrylate
Primary Coating Diameter	245 ± 10 µm	245 ± 10 µm	245 ± 10 µm
Max. Attenuation @ 850nm	3.5 dB/km	3.0 dB/km	3.0 dB/km
Max. Attenuation @ 1300nm	1.5 dB/km	1.0 dB/km	1.0 dB/km
Min. Overfilled Bandwidth @ 850nm	200 MHz.km	500 MHz.km	1500 MHz.km
Min. Overfilled Bandwidth @ 1300nm	500 MHz.km	550 MHz.km	500 MHz.km
Point Loss @ 850nm & 1300nm	0.10 dB	0.10 dB	0.10 dB
Numerical Aperture	0.275 ± 0.015	0.200 ± 0.015	0.200 ± 0.015
Refractive Index @ 850nm	1.497	1.483	1.483
Refractive Index @ 1300nm	1.493	1.479	1.479

PUT-UPS AND COLORS:

Item	# Fibers	Fiber Type	Cable Description	Put-up* (metre)	Jacket Color
BAGU12QA006BK	6	G652.D	CENTRAL TUBE CSTA SINGLE PE JACKET	2000	BLACK
BAGU62QA006BK	6	62.5µm OM1	CENTRAL TUBE CSTA SINGLE PE JACKET	2000	BLACK
BAGU50QA006BK	6	50µm OM2	CENTRAL TUBE CSTA SINGLE PE JACKET	2000	BLACK
BAGU53QA006BK	6	50µm OM3	CENTRAL TUBE CSTA SINGLE PE JACKET	2000	BLACK

* Other put-ups available upon request.

Revision Number: 3

Revision Date: 29/4/2014

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