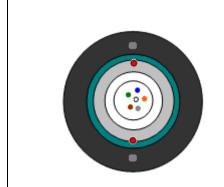


## **BAGUxxQA**

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







For more information please call 1-800-Belden1

See Put-ups and Colors

Related Documents: No.10 for Fiber Optic Cables .pdf

### **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

### **OVERALL DIAMETER:**

OUTER JACKET:
Outer Jacket Material

Outer Jacket Color

Black

PE – Polyethylene



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Overall Nominal Diameter	8.7 mm		
MECHNICAL 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		

## **Optical Characteristics:**

Sunlight Resistance (Y/N)

SINGLE MODE FIBERS	G652.D
Belden Fiber Code	U12
Typical Mode Field Diameter @ 1310nm	$9.2~\pm0.4~\mu m$
Typical Mode Field Diameter @ 1550nm	$10.4~\pm0.5~\mu m$
Cladding Diameter	$125 \pm 0.7 \ \mu m$
Clad Non-Circularity	≤ 0.7 %
Core-Clad Concentricity Error	≤ 0.5 μm
Primary Coating Material	Acrylate
Primary Coating Diameter	$245 \pm 7 \mu m$
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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# Fiber Optic - Central Tube - Glass Yarn/Steel Wire - Armored/Single PE Jacket

Max. Slope @ Zero Dispersion Wavelength	$0.092 \text{ ps/(nm}^2 \text{ km)}$
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	$62.5 \pm 2.5 \ \mu m$	$50.0 \pm 2.5 \mu m$	$50.0 \pm 2.5 \ \mu m$
Cladding Diameter	$125 \pm 1.0 \ \mu m$	$125 \pm 1.0 \ \mu m$	$125\pm1.0\;\mu m$
Clad Non-Circularity	≤ 1 %	≤ 1 %	≤ 1 %
Core-Clad Concentricity Error	$\leq 1.0~\mu m$	$\leq 1.0~\mu m$	$\leq 1.0~\mu m$
Primary Coating Material	Acrylate	Acrylate	Acrylate
Primary Coating Diameter	$245 \pm 10 \ \mu m$	$245\pm 10\;\mu m$	$245\pm10\;\mu m$
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	$0.275 \pm 0.015$	$0.200 \pm 0.015$	$0.200 \pm 0.015$
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

<sup>\*</sup> Other put-ups available upon request.

Revision Number: 3 Revision Date: 29/4/2014

# Detailed Specifications & Technical Data



### **BAGUxxQA**

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

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