Belden

Product: 6458

IA, 1C , Sol, Polyethylene, Foam, 300 V RMS, CMR 75C, CL2R 75C, CSA CMG, CSA FT4

Product Description

IA, 1 Conductor 18 AWG (SOLID) BCW - Bare Copper Weld, Polyethylene, Foam Insulation, Overall Aluminum/Polyester Shield, Black PVC Outer Jacket, CMR 75C, CL2R 75C, CSA CMG, CSA FT4 CMG, FT4 UL FT4; CSA FT4

Technical Specifications

Construction Details

RG Type:	6

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	18 AWG	Solid	BCCS - Bare Copper Covered Steel

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Conductor(s)	PE - Polyethylene (Foam)	0.178 in (4.52 mm)	Natural

Outer Shield

Outer Shield Type	Material	Coverage
Tape	Tri-Laminate (Alum+Poly+Alum)	100%
Braid	Aluminum	60%
Tape	Tri-Laminate (Alum+Poly+Alum)	100%
Braid	Aluminum	40%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.298 in (7.57 mm)

Overall Cable Diameter (Nominal):	0.298 in (7.57 mm)

Electrical Characteristics

Electricals

Element	Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
Conductor(s)	28 Ohm/1000ft (92 Ohm/km)	3.6 Ohm/1000ft (12 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	82%

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C To +75°C

Bend Radius

Stationary Min.
3.0 in (76 mm)

Max. Pull Tension:	368 lbs (167 kg)

Standards and Compliance

Environmental Suitability:	Riser, Indoor, Outdoor
Flammability / Reaction to Fire:	FT4, FT4
NEC / UL Compliance:	CMR, CL2R
CEC / C(UL) Compliance:	CMG, CMG.
Military Compliance:	MIL-C-17D
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Alpha Wire -* P/N 6458 1C 18 AWG RG-6/U TYPE 75C QUAD SHIELD 1C18 CONTROLNET(TM) CABLE EXXXXX (UL) CL2R OR CMR OR C(UL) CMG CE ROHS

History

Update and Revision:	Revision Number: 0.108 Revision Date: 05-18-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length
6458 BK005	Black	Reel	100 ft
6458 BK001	Black	Reel	1,000 ft

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