



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 EXXXXXX (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

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.