Belden

Product: M4182

COAX, 1C , Sol, Polyethylene, Foam, 300 V RMS, CM 75C, AWM/STYLE 1354 80C, CSA C(UL) TYPE CM

Product Description

COAX, 1 Conductor 18 AWG (SOLID) BC - Bare Copper, Polyethylene, Foam Insulation, Overall Aluminum/Polyester Shield, Black Type I PVC Outer Jacket, CM 75C, AWM/STYLE 1354 80C, CSA C(UL) TYPE CM C(UL) TYPE CM

Technical Specifications

Construction Details

RG Type:	6

Conductor

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

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Conductor(s)	PE - Polyethylene (Foam)	0.180 in (4.57 mm)	Natural

Outer Shield

Outer Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.270 in (6.86 mm)

Outer Jacket1 Table Notes:	Type I
Overall Cable Diameter (Nominal):	0.270 in (6.86 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)	16.4 Ohm/1000ft (53.8 Ohm/km)	5.6 Ohm/1000ft (18 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	82%

Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 1354)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C To +75°C

Bend Radius

Stationary Min.
2.7 in (69 mm)

Max. Pull Tension:	319 lbs (145 kg)

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
NEC / UL Compliance:	CM
AWM Compliance:	AWM 1354
CEC / C(UL) Compliance:	CM.
Military Compliance:	MIL-C-17
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), 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 M4182 1C 18 AWG RG-6/U TYPE 1C18 SHIELDED EXXXXXX AWM 1354 OR (UL) CM C(UL) CE ROHS (SEQ FOOTAGE 2FT) FEET

History

Update and Revision:	Revision Number: 0.88 Revision Date: 05-18-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length
M4182 BK005	Black	Reel	100 ft
M4182 BK001	Black	Reel	1,000 ft

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