



Product: [8760PE](#)

Life Cycle Status: Capability

Electronic, 2 C #18 Str TC, PE Ins, OS, PE Jkt

[Request Sample](#)

Product Description

Electronic, 2 Conductor 18AWG (16x30) Tinned Copper, PO Insulation, Overall Beldfoil® Shield, PE Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	18	16x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.0175 in (0.445 mm)	0.082 in (2.1 mm)	Black & White

Inner Shield

Drainwire Type
20 AWG (7x28) TC

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Nom. Thickness	Nom. Diameter
0.89 mm (0.035 in)	6.0 mm (0.24 in)

Overall Cable Diameter (Nominal):	6.0 mm (0.24 in)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
21.3 Ohm/km (6.49 Ohm/1000ft)	98 pF/m (30 pF/ft)	144 pF/m (43.9 pF/ft)	4.9 Amps per Conductor at 25°C

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-45°C To +70°C	-15°C To +70°C	-45°C To +70°C

Bend Radius

Stationary Min.	Installation Min.
2.22 in (56.4 mm)	2.22 in (56.4 mm)

Max. Pull Tension:	41.6 lbs (18.9 kg)
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Standards and Compliance

Environmental Suitability:	Water Exposure/Below-Grade Conduit, Indoor, Non-Halogenated, Sunlight Resistance
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 6km for the first order. This product will have Black as standard color and 305mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 8760NH. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.4 Revision Date: 03-19-2025
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