



Product: <u>71733ELW</u> ☑

Life Cycle Status: Capability

RS485, 4 Pr #18 Str TC, PE Ins, OS+TC Brd, LSZH Jkt, Cca

## **Product Description**

RS-485, 4 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, LSZH Outer Jacket, CPR Cca

## **Technical Specifications**

### **Product Overview**

Suitable RS-485, POS; Computer communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Panel Wiring; serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.

# **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	18 AWG	7x26	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	ı
Pair(s)	PE - Polyethylene	0.90 mm (0.035 in)	3.0 mm (0.12 in)	White/Blue & Blue/White, White/Orange & Orange/White, White/Green & Green/White, White/Brown & Brown/White	ı

### **Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)		

#### Outer Jacket

	Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant		1.2 mm (0.047 in)	15.4 mm (0.606 in)
Overall Cable Diameter (Nominal):	15.4 mm (0.606 in)		

## **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	21 Ohm/km (6.4 Ohm/1000ft)	36 pF/m (11 pF/ft)	65 pF/m	120 Ohm	66%	3.5 Amps per Conductor

### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.30 dB/100m (0.396 dB/100ft)

#### Voltage



## **Mechanical Characteristics**

### Temperature

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

#### **Bend Radius**

### **Standards and Compliance**

Stationary Min. Installation Min.

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1,d1,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-20
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
Other Standard Compliance(s):	DMX-512

### **Product Notes**

	This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 3km for the first
Notes:	order. This product will have Grey as standard color and 305mt or 500mt 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 3107ENH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.

## **History**

Update and Revision:	Revision Number: 0.21 Revision Date: 05-07-2025
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