



Product: [8461ZH](#)

Electronic, 2 C #18 Str TC, PO Ins, LSZH Jkt, CMG

[Request Sample](#)

Product Description

Electronic, 2 Conductor 18AWG (7x26) Tinned Copper, PO Insulation, LSZH Outer Jacket, CMG

Technical Specifications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	18 AWG	7x26	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.016 in (0.41 mm)	0.078 in (2.0 mm)	Black & White

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.027 in (0.69 mm)	0.210 in

Overall Cable Diameter (Nominal): 0.210 in.

Electrical Characteristics

Electricals		
Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
6.5 Ohm/1000ft	31 pF/ft (100 pF/m)	4.8 Amps per Conductor at 25°C

Voltage	
UL Voltage Rating	
300 V	

Mechanical Characteristics

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

Bend Radius	
Stationary Min.	Installation Min.
2.1 in (53 mm)	2.1 in

Max. Pull Tension:	45 lbs (20 kg)
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Non-Halogenated
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMG
CEC / C(UL) Compliance:	CMG
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
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, 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)

History

Update and Revision:	Revision Number: 0.364 Revision Date: 02-15-2024
----------------------	--

Part Numbers

Variants

Item #	Color	UPC
8461ZH 0101000	Black	612825382317
8461ZH 010500	Black	612825382324

© 2024 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.