



Product: 8770ELW

Electronic, 3C #18 Str TC, PO ins, OS, LSNH Jkt 300V, Cca

Product Description

Electronic, 3 Conductor AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V, Cca

Technical Specifications

Product Overview

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Suitab	Suitable Applications: Au				Audio, C	ontrol & Instrume	entation cable	; For data transmi	ssion applications
Physi	ical Char	acteristics	(Overall)						
			· · ·						
Condu									
	Stranding	Material		uctors					
18	16x30	TC - Tinned Co	opper 3						
Condu	ictor Count:				3				
nsulat	ion								
	laterial	Nominal Diam			Nominal Wall Th	ckness			
PE - P	olyethylene	2.08 mm	0.05 mm		0.018 in				
Color C	Chart								
Numb	er Color								
Wire 1									
Wire 2									
Wire 3	Clear								
Outer S	Shield								
Туре	Mat	erial	Material Trade Nam	e Coverage	e [%] Thickness	of Foil Drainw	ire Material	Drainwire AWG	Drainwire Construction n x
Таре	Bi-Laminate (Alum+Poly) E	Beldfoil® (Z-Fold®)	100%	9 / 12 µm	TC - Tir	nned Copper	AWG20/7	Stranded
Juter J	Jacket	Material		Nominal Dia	motor Nominal	Wall Thickness	1		
LSZH	- Low Smoke		(Flame Retardant)		0.84 mm				
		5	()				1		
Cons	truction	and Dimens	sions						
Cabling	q								
	Descriptio	n Twi	sts						
3 wires	s twisted to c	able core 8 tw	ist/ft						
Elect	rical Cha	racteristics	5						
Condu	ctor DCR								
Nomir	nal Conduct	or DCR Nomin	nal Outer Shield DC	R					
21.7 C)hm/km	27.9 C	Dhm/km						

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
78.7 pF/m	157.5 pF/m

Inductance

Nominal Inductance 0.605 µH/m

Impedance

Nominal Characteristic Impedance 69 Ohm

Delay

Nominal Velocity of Propagation (VP) [%] 66%

Current

 Element
 Max. Recommended Current [A]

 Conductor(s)
 5.3 Amps per Conductor

Voltage

Voltage Rating [V] 300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	335 N
Min. Bend Radius During Installation:	62.5 mm
Min. Bend Radius/Minor Axis:	2.5 in

Standards

CPR Euroclass:	Cca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Plenum/Non-Plenum

Plenum (Y/N):	No

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Related Part Numbers
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Item # 8770ELW.00305

History

Update and Revision:

Revision Number: 0.35 Revision Date: 06-28-2024

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