



Product: [28149AS](#)

TC VN/PVC, 2+G C #8+10 Str BC, PVC-NYL Ins M4, OS, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 8+10AWG (Class B) Bare Copper, PVC-NYL Insulation M4 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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Physical Characteristics (Overall)

Conductor					
Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	8	7x16	BC - Bare Copper	0.143 in	2
Ground	10	7x18	BC - Bare Copper	0.110 in	1
Conductor Count: 2					

Insulation	
Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.242 in
No Insulation	

Color Chart	
Number	Color
1	Black
2	Black

Outer Shield					
Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	14

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.634 in	0.063 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	0.64 Ohm/1000ft

Current	
Max. Recommended Current [A]	55 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC-ER	600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

UL Temp Rating:	90°C Dry, 75°C Wet
Operating Temperature Range:	-25°C To +90°C

Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (Overall):	6.3 in

Standards

NEC/(UL) Compliance:	TC-ER
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Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Related Part Numbers

Variants

Item #	Put-Up Type
28149AS 0102500	Reel

History

Update and Revision:	Revision Number: 0.55 Revision Date: 01-10-2024
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