

## Product: A1910K

IMAGE COMING SOON

# TC VN/PVC, 19 C #10 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

## **Product Description**

UL Type TC (1277) PVC-Nylon/PVC, 19 Conductor 10AWG (7x18) Bare Copper, PVC-NYL Insulation E2 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	No. of Conductors
Conductor(s)	10	7x18	BC - Bare Copper	19
Conductor Count:			19	

#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nyl	on 0.164 in	0.026 in

#### Color Chart

Number	Color
1	Black and Numbered 1
2	Red and Numbered 2
3	Blue and Numbered 3
4	Orange and Numbered 4
5	Yellow and Numbered 5
6	Brown and Numbered 6
7	Red/Black and Numbered 7
8	Blue/Black and Numbered 8
9	Orange/Black and Numbered 9
10	Yellow/Black and Numbered 10
11	Brown/Black and Numbered 11
12	Black/Red and Numbered 12
13	Blue/Red and Numbered 13
14	Orange/Yellow and Numbered 14
15	Yellow/Red and Numbered 15
16	Brown/Red and Numbered 16
17	Black/Blue and Numbered 17
18	Red/Blue and Numbered 18
19	Orange/Blue and Numbered 19

#### Outer Shield

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	10

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.990 in	0.083 in

## **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR

1.04 Ohm/1000ft

Current

## Max. Recommended Current [A]

20 Amps per Conductor at 30°C

#### Voltage

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

## **Temperature Range**

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temperature Range:	-30°C To +90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

## **Mechanical Characteristics**

UV Resistance:	Yes
Bulk Cable Weight:	927 lbs/1000ft
Max. Pull Tension:	1577 lbs
Min Bend Radius (Overall):	9.9 in
Min. Bend Radius/Minor Axis:	9.90 in

### Standards

NEC/(UL) Compliance:	TC-ER, THWN-2	

## 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:	Yes
EU CE Mark:	Yes

## Suitability

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

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)
Plenum/Non-Plenum	
Plenum (Y/N):	No
History	
Update and Revision:	Revision Number: 0.52 Revision Date: 05-31-2024

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