



**Product:** [31P2002](#)

Inst PVC/PVC, 2 Pr #20 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

### Product Description

UL Instrumentation, 2 Pair 20AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES

### Technical Specifications

#### Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners
------------------------	---

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	BC - Bare Copper	2

Conductor Count: 4

##### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.071 in	0.018 in

##### Color Chart

Number	Color
1	Black & White and Numbered 1
2	Black & White and Numbered 2

##### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	24

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.326 in	0.042 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR
9.5 Ohm/1000ft

##### Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Type PLTC	PLTC	300 V RMS	300 V RMS

#### Temperature Range

UL Temp Rating:	105°C
Operating Temperature Range:	-30°C To +105°C

## Mechanical Characteristics

UV Resistance:	Yes
Max. Pull Tension:	33 lbs
Min. Bend Radius/Minor Axis:	3.26 in

## Standards

NEC/(UL) Compliance:	CMG, PLTC, ITC
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

## 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:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
ICEA Flammability:	T-29-520
IEEE Flammability:	1202
UL voltage rating:	300 V RMS (PLTC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## History

Update and Revision:	Revision Number: 0.45 Revision Date: 05-31-2024
----------------------	---

© 2025 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.