



**Product:** [TP12018W](#)

Inst, 1 Pr #12 Str TC, XLPE Ins E1, Blk LSZH Jkt, 600V TC 90C Dry/Wet SUN RES

**Product Description**

UL Instrumentation, 1 Pair 12AWG (7x20) Tinned Copper, XLPE Insulation E1 Color Code, Black LSZH Outer Jacket, 600V TC 90C Dry/Wet SUN RES

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter
12	7x20	TC - Tinned Copper	0.089 in

Conductor Count:	2
Total Number of Pairs:	1

**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.150 in	0.030 in

**Color Chart**

Number	Color
1	Black
2	White

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.384 in	0.047 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
1.65 Ohm/1000ft

**Current**

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

**Temperature Range**

UL Temp Rating:	90°C Wet/Dry
Operating Temp Range:	-25°C To +90°C

**Mechanical Characteristics**

Bulk Cable Weight:	87 lbs/1000ft
Max. Pull Tension:	173 lbs
Min Bend Radius (Overall):	4.0 in

## Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC, XHHW-2

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65:	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	UL 1685 Vertical Tray
UL voltage rating:	600 V RMS (Type TC)

## History

Update and Revision:	Revision Number: 0.20 Revision Date: 06-08-2020
----------------------	---

© 2020 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.