



For more Information  
please call

1-800-Belden1



### General Description:

10 AWG multi-conductor stranded (7x18) bare copper conductors, PVC/Nylon insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	10	7x18	BC - Bare Copper

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): N

#### Insulation

Insulation Material:

Insulation Material
PVC/Nylon - Polyvinyl Chloride/Nylon

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.047

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	Blue

Overall Nominal Diameter: 0.450 in.

### Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

Bulk Cable Weight: 444 lbs/1000 ft.

Max. Recommended Pulling Tension: 468 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: TC, THHN/THWN Singles

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

Mil Order #39 (China RoHS): Yes

## 27139A Multi-Conductor - 600V Type TC Cable

**Other Specification:** ICEA S-73-532, S-95-658, S-61-402

### Flame Test

**UL Flame Test:** UL1685 UL Loading

**C(UL) Flame Test:** FT4

### Suitability

**Suitability - Burial:** Yes

**Sunlight Resistance:** Yes

### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/ft)**

37

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**

1.07

### Max. Operating Voltage - UL:

**Voltage**

600 V RMS

### Max. Recommended Current:

**Current**

40 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Nominal Loop Inductance: .167 µH/ft

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
27139A 0101000	1,000 FT	162.000 LB	BLACK	C	3#10 PVC/NYLON PVC CABLE
27139A 01010000	10,000 FT	1,740.000 LB	BLACK	C	CALL CSR - INDUSTRIAL

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 11-16-2012

© 2016 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.