

## 27081A Multi-Conductor - 600V Type TC Cable



For more Information  
please call

1-800-Belden1



### General Description:

14 AWG multi-conductor stranded (7x22) bare copper conductors, PVC/Nylon insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	14	7x22	BC - Bare Copper

Total Number of Conductors: 3

#### 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: 0.350 in.

### Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

Bulk Cable Weight: 80 lbs/1000 ft.

Max. Recommended Pulling Tension: 164 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

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

EU CE Mark: 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

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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

IEEE Flame Test: 1202

ICEA Flame Test: ICEA T-29-520 210,000 BTU Vertical Tray Flame Test

### Suitability

Suitability - Burial: Yes

Sunlight Resistance: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.520

#### Max. Operating Voltage - UL:

Voltage	Description
150 V RMS	NPLF
600 V RMS	TC

#### Max. Recommended Current:

Current  
15

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
27081A 0101000	1,000 FT	86.000 LB	BLACK	C	3 #14 PVC/NYL PVC
27081A 01010000	10,000 FT	900.000 LB	BLACK	C	3 #14 PVC/NYL PVC
27081A 0105000	5,000 FT	445.000 LB	BLACK	C Z	3 #14 PVC/NYL PVC

#### Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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