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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
2	10	7x18	BC - Bare Copper

Total Number of Conductors: 2

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 (mm)
PVC - Polyvinyl Chloride	1.194

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 6.604 x 10.820 mm

Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

UL Temperature Rating: 75C Wet / 90C Dry

Bulk Cable Weight: 123.521 Kg/Km

Max. Recommended Pulling Tension: 738.401 N

Min. Bend Radius/Minor Axis: 66.040 mm

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

27138A Multi-Conductor - 600V Type TC Cable

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
MII Order #39 (China RoHS):	Yes
Other Specification:	THHN/THWN Singles, ICEA S-73-532, S-95-658, S-61-402

Flame Test

UL Flame Test:	UL1685 Vertical Tray Flame Test
CSA Flame Test:	FT4

Suitability

Suitability - Burial:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
3.412

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
40 Amps per conductor @ 30°C

Notes (Overall)

Notes: Flat construction; overall shield not available

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
27138A 01010000	10,000 FT	1,140.000 LB	BLACK	C	2 #10 PVC/NYL PVC PARALLEL
27138A 0105000	5,000 FT	555.000 LB	BLACK		2 #10 PVC/NYL PVC PARALLEL

Notes:

C = CRATE REEL PUT-UP.

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