Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

28177A Multi-Conductor - 600V Type TC-ER Cable

For more Information
please call

1-800-Belden1

General Description:

4/0 AWG multi-conductor stranded (19x9.5) bare copper conductors, 4 AWG bare copper ground wire, PVC/Nylon insulation, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	4/0	19x9.5	BC - Bare Copper

Total Number of Conductors:	3

Ground Wire

Ground Wire (Y/N):	Y
Ground Wire AWG:	4
Ground Wire Stranding:	7x12
Ground Wire Conductor Material:	BC - Bare Copper

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	2.108

Outer Jacket Ripcord:	Yes

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3

Overall Nominal Diameter:	39.065 mm

Mechanical Characteristics (Overall)

Wet Temperature Range:	-30°C To +75°C
Dry Temperature Range:	-30°C To +90°C
Bulk Cable Weight:	3631.208 Kg/Km
Max. Recommended Pulling Tension:	17921.798 N

Min. Bend Radius/Minor Axis:	390.652 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	NPLF, TC-ER
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
MII Order #39 (China RoHS):	Yes
Other Specification:	ICEA S-73-532, S-95-658, S-61-402

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4

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/km)
0.220

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
225 AMPS @ 30°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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