



## Part Number: 1077A

300V, (8 pr) 20 AWG (7x28), (1) 22 AWG (7x30) BC, PVC/PVC, IS/OS, PLTC-ER, CMG

### Product Description

Eight 20 AWG pairs stranded (7x28) bare copper conductors plus one 22 AWG stranded (7x30) bare copper conductor, twisted pairs, PVC insulation, individual plus an overall Beldfoil® shield (100% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
20	7x28	BC - Bare Copper		8
22	7x30	BC - Bare Copper	1	

Conductor Count:	17
Total Number of Pairs:	8
Total Number of Triads:	N/A
AWG Size:	20

##### Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.0175 in
PVC - Polyvinyl Chloride	0.019 in

##### Color Chart

Number	Color
1	Black & White and Numbered 1
2	Black & White and Numbered 2
3	Black & White and Numbered 3
4	Black & White and Numbered 4
5	Black & White and Numbered 5
6	Black & White and Numbered 6
7	Black & White and Numbered 7
8	Black & White and Numbered 8
9	Orange

##### Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	22	7x30 mm
	TC - Tinned Copper					

##### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.514 in	0.053 in	Yes

#### Construction and Dimensions

## Cabling

Lay Direction
Left Hand

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	6.5 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
30 pF/ft	55 pF/ft

### Inductance

Nominal Inductance
0.19 $\mu$ H/ft

### Voltage

UL Description	UL Voltage Rating
(PLTC CMG)	300V RMS
(ITC)	

## Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-30°C To +105°C

## Mechanical Characteristics

Bulk Cable Weight:	167 lbs/1000ft
Max Recommended Pulling Tension:	320 lbs
Min Bend Radius/Minor Axis:	5.5 in

## Standards

NEC Articles:	800
NEC/(UL) Specification:	PLTC, ITC, CMG
CEC/C(UL) Specification:	CMG
UL AWM Style:	2464

## 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 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading
ICEA Flammability:	T-29-520
IEEE Flammability:	1202

## Part Number

Plenum (Y/N):	No
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### Variants

Item #	Color	Footnote
1077A 0107500	BLACK	C Z

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

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