



Part Number: 1081A

300V, (36 pr) 20 AWG (7x28), (1) 22 AWG (7x30) BC,
PVC/PVC, Foil Shld, PLTC-ER, CMG

Product Description

Thirty-six 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.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Conductors	No. of Pairs
20	7x28	BC - Bare Copper		36
22	7x30	BC - Bare Copper	1	
Total Number of Conductors:			73	

Insulation:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.068 in

Color Chart 1:

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	Black & White and Numbered 9
10	Black & White and Numbered 10
11	Black & White and Numbered 11
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14	Black & White and Numbered 14
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27	Black & White and Numbered 27
28	Black & White and Numbered 28
29	Black & White and Numbered 29
30	Black & White and Numbered 30
31	Black & White and Numbered 31
32	Black & White and Numbered 32
33	Black & White and Numbered 33
34	Black & White and Numbered 34
35	Black & White and Numbered 35
36	Black & White and Numbered 36
Communication Wire	Orange

Innershield:

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

Cabling 1:

Lay Direction
Left Hand

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.035 in	0.074 in	Yes

Print Legend:	LEGEND: BELDEN 1081A E34972 36PR20 1C22 SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL) CMG ----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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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

Current:

Max. Recommended Current [A]
3 Amps per conductor @ 25°C

Inductance:

Nominal Inductance
0.19 µH/ft

Voltage:

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

Use

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	1359 lbs

Safety

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

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	10.5 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

Product Variants

Part Number	Color	Put-Up Type	Length
1081A 0102000	BLACK	Reel	2000 ft

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