



Product: [1086A](#)

Inst, 24 Tri #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

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Product Description

UL Instrumentation, 24 Triad 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Triads
20	7x28	BC - Bare Copper		24
22	7x30	BC - Bare Copper	1	

Conductor Count: 73

Insulation

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

Color Chart

Number	Color
1	Black and Red and White and Numbered 1
2	Black and Red and White and Numbered 2
3	Black and Red and White and Numbered 3
4	Black and Red and White and Numbered 4
5	Black and Red and White and Numbered 5
6	Black and Red and White and Numbered 6
7	Black and Red and White and Numbered 7
8	Black and Red and White and Numbered 8
9	Black and Red and White and Numbered 9
10	Black and Red and White and Numbered 10
11	Black and Red and White and Numbered 11
12	Black and Red and White and Numbered 12
13	Black and Red and White and Numbered 13
14	Black and Red and White and Numbered 14
15	Black and Red and White and Numbered 15
16	Black and Red and White and Numbered 16
17	Black and Red and White and Numbered 17
18	Black and Red and White and Numbered 18
19	Black and Red and White and Numbered 19
20	Black and Red and White and Numbered 20
21	Black and Red and White and Numbered 21
22	Black and Red and White and Numbered 22
23	Black and Red and White and Numbered 23
24	Black and Red and White and Numbered 24
25	Orange

Color Chart 2

Number	Color
1	Black & White & Red and Numbered 1
2	Black & White & Red and Numbered 2
3	Black & White & Red and Numbered 3
4	Black & White & Red and Numbered 4
5	Black White & Red and Numbered 5
6	Black & White & Red and Numbered 6
7	Black & White & Red and Numbered 7
8	Black & White & Red and Numbered 8
9	Black & White & Red and Numbered 9
10	Black & White & Red and Numbered 10
11	Black & White & Red and Numbered 11
12	Black & White & Red and Numbered 12
13	Black & White & Red and Numbered 13
14	Black & White & Red and Numbered 14
15	Black & White & Red and Numbered 15
16	Black & White & Red and Numbered 16
17	Black & White & Red and Numbered 17
18	Black & White & Red and Numbered 18
19	Black & White & Red and Numbered 19
20	Black & White & Red and Numbered 20
21	Black & White & Red and Numbered 21
22	Black & White & Red and Numbered 22
23	Black & White & Red and Numbered 23
24	Black & White & Red and Numbered 24
Communication Wire	Orange

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	22	7x30

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	20	7x28

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.079 in	0.074 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	16 Ohm/1000ft

Capacitance

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

Inductance

Nominal Inductance
0.19 µH/ft

Current

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

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	607 lbs/1000ft
Max Recommended Pulling Tension:	1250 lbs
Min Bend Radius/Minor Axis:	9.9 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER
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
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 UL Loading
ICEA Flammability:	T-29-520
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1086A 0102500	Black	Reel	2,500 ft	612825106159

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.

History

Update and Revision:	Revision Number: 0.327 Revision Date: 04-28-2020
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