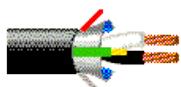


Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

3090AE Multi-Conductor - 600V Tray Cable



For more Information
please call

1-800-Belden1



General Description:

16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, PVC/Nylon insulation, overall Beldfoil shield (100% coverage), drain wire, insulated green ground wire, ripcord, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	1	16	7x24	BC - Bare Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 16

Ground Wire Stranding: 7x24

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC/Nylon - Polyvinyl Chloride/Nylon

Insulation

Insulation Material:

Insulation Material
PVC/Nylon - Polyvinyl Chloride/Nylon

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.048

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black & White
2	Green

Overall Nominal Diameter: 0.390 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & White

Mechanical Characteristics (Overall)

Wet Temperature Range: -30°C To +75°C

Dry Temperature Range: -30°C To +90°C

Bulk Cable Weight: 76 lbs/1000 ft.

Max. Recommended Pulling Tension: 130 lbs.

Min. Bend Radius/Minor Axis: 3.900 in.

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	NPLF, TC-ER, UL 1277
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):	09/23/2005
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-61-402

Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202/383
ICEA Flame Test:	T-29-520

Suitability

Suitability - Burial:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

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

Nom. Inductance:

Inductance (μ H/ft)
.176

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
87

Nom. Mutual Capacitance:

Capacitance (pF/ft)
50

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.67

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.99

Max. Operating Voltage - UL:

Voltage
600 V RMS (NEC Type TC)
150 V RMS (NPLF)

Notes (Overall)

Notes: Alternate color coding available upon request.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3090AE 0101000	1,000 FT	65.000 LB	BLACK	C	2 #16 PVC/NYL FS + 1 #16 PVC
3090AE 0105000	5,000 FT	340.000 LB	BLACK	C Z	2 #16 PVC/NYL FS + 1 #16 PVC

Notes:

C = CRATE REEL PUT-UP.

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

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

3090AE Multi-Conductor - 600V Tray Cable

Revision Number: 1 Revision Date: 05-14-2007

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