

## 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.

## 3090AE Multi-Conductor - 600V Tray Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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 (µH/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.

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