



**Part Number:** 3090AE

600V Tray, (1 pr) 16 AWG (7x24) BC+Grd, (1) 16 AWG (7x24) BC, PVC-NYL/PVC, Foil Shld, TC-ER

## Product Description

One 16 AWG pair stranded (7x24) bare copper plus ground wire, one 16 AWG stranded (7x24) bare copper conductor, twisted pairs, PVC-Nylon insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
	16	7x24	BC - Bare Copper	1	1
Ground Wire	16	7x24	BC - Bare Copper		
<b>Total Number of Conductors:</b>				3	

#### Insulation:

Material
PVC/Nylon - Polyvinyl Chloride/Nylon
PVC/Nylon - Polyvinyl Chloride/Nylon

#### Color Chart 1:

Number	Color
1	Black & White
2	Green
1	Black & White

## Stranding:

Lay Length
Y mm

## Outersield 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	18	7x26 mm

## Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.39 in	0.048 in	Yes

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
3.67 Ohm/1000ft	4.99 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
87 pF/ft	50 pF/ft

### Inductance:

Nominal Inductance
0.176 µH/ft

### Voltage:

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

## Use

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	130 lbs

## Safety

C(UL) Flammability:	FT4
---------------------	-----

ICEA Flammability:	T-29-520
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

## Temperature Range

Dry Temp Range:	-30°C To +90 °C
Wet Temp Range:	-30°C To +75°C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.9 in
-----------------------------	--------

## Part Number

Plenum (Y/N):	No
---------------	----

## Standards

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

## History

Notes:	Alternate color coding available upon request.
--------	--

## Product Variants

Part Number	Color	Put-Up Type	Length
3090AE 0101000	BLACK	Reel	1000 ft
3090AE 0105000	BLACK	Reel	5000 ft

© 2016 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.