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1-800-Belden1



General Description:

16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, PVC/Nylon insulation, individually shielded plus an overall Beldfoil shield (100% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
12	16	7x24	BC - Bare Copper

Total Number of Conductors: 24

Insulation

Insulation Material:

Insulation Material
PVC/Nylon - Polyvinyl Chloride/Nylon

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

AWG
18

Inner Shield Drain Wire Stranding: 7x26

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

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
16	7x24	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	2.159

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 23.038 mm

Pair

Pair Color Code Chart:

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
12	Black&White and numbered 12

Mechanical Characteristics (Overall)

Wet Temperature Range:	-30°C To +75°C
Dry Temperature Range:	-30°C To +90°C
UL Temperature Rating:	75°C Dry, +90°C Wet
Bulk Cable Weight:	675.048 Kg/Km
Max. Recommended Pulling Tension:	2148.481 N
Min. Bend Radius/Minor Axis:	231.140 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	NPLF, TC-ER
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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 Vertical Tray Flame Test
CSA Flame Test:	FT4
IEEE Flame Test:	1202

Suitability

Suitability - Burial:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

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

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
13.780

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
10.302

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	16.635 Ohm/km
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Max. Operating Voltage - UL:

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

Max. Recommended Current:

Current
3.6 Amps per conductor @ 30C

Notes (Overall)

Notes: Alternate color coding available upon request.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1042A 0102500	2,500 FT	1,327.500 LB	BLACK	C Z	16/12 PR VNTC IS/OS 600V
1042A 0105000	5,000 FT	2,820.000 LB	BLACK	C Z	12 FS PR #16 PVC/NYL FS PVC

Notes:

METRIC MEASUREMENT VERSION

1042A Multi-Conductor - 600V Tray Cable

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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