



Product: [3053A](#)

300V, (16 triad) 16 AWG (7x24) BC, (1) 22 AWG (7x30) BC, FR-PVC/FR-PVC, IS/OS, PLTC-ER, CMG

[Request Sample](#)

Product Description

Sixteen 16 AWG triads stranded (7x24) bare copper conductors, one 22 AWG stranded (7x30) bare copper conductor, twisted pairs, flame retardant PVC insulation, Individual and overall Beldfoil® shield (100% coverage), flame retardant PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Triads
16	7x24	BC - Bare Copper	16
22	7x30	BC - Bare Copper	

Conductor Count:	49
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Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.014 in

Color Chart

Number	Color
1	Black and White and Red and Numbered 1
2	Black and White and Red and Numbered 2
3	Black and White and Red and Numbered 3
4	Black and White and Red and Numbered 4
5	Black and White and Red and Numbered 5
6	Black and White and Red and Numbered 6
7	Black and White and Red and Numbered 7
8	Black and White and Red and Numbered 8
9	Black and White and Red and Numbered 9
10	Black and White and Red and Numbered 10
11	Black and White and Red and Numbered 11
12	Black and White and Red and Numbered 12
13	Black and White and Red and Numbered 13
14	Black and White and Red and Numbered 14
15	Black and White and Red and Numbered 15
16	Black and White and Red and Numbered 16
17	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	Orange

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18	7x26

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	16	7x24

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.021 in	0.073 in	Yes

Construction and Dimensions

Stranding

Twists

4.8 twist/ft

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
16 AWG	4.2 Ohm/1000ft	5.4 Ohm/1000ft	3.5 Ohm/1000ft
22 AWG	14.7 Ohm/1000ft		

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	860 lbs/1000ft
Max. Pull Tension:	2117 lbs
Min. Bend Radius/Minor Axis:	11.5 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG, ITC, PLTC
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

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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Product Notes

Notes:	Alternate color coding available upon request.
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History

Update and Revision:	Revision Number: 0.192 Revision Date: 01-11-2024
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