

## 1349A Multi-Conductor - CC Link Certified Signal and Power Cable



For more Information  
please call

1-800-Belden1



### General Description:

18 and 20 AWG stranded bare copper conductors, foam HDPE insulation (power), foam HDPE insulation (data), overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (78% cov.), 22 AWG stranded (7x30) tinned copper drain wire, PVC jacket.

### Usage (Overall)

Suitable Applications: CC Link

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	18	7x26	BC - Bare Copper
3	20	7x28	BC - Bare Copper

Total Number of Conductors: 5

#### Insulation

Insulation Material:

Insulation Material	AWG
FHDPE - Foam High Density Polyethylene	20
PVC - Polyvinyl Chloride	18

Insulation Color Code Chart:

Number	Color	Description
1	Blue	20 AWG
2	Yellow	20 AWG
3	White	20 AWG

#### Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	78

Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
22	19x34	TC - Tinned Copper

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	0.889	7.8486

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.3462

#### Overall Cable

Overall Cabling Lay Length & Direction:

Length (mm)	Direction
152.3994	Right Hand

Overall Cabling Color Code Chart:

Number	Color
4	Black
5	White

Overall Cabling Separator Material: Polyester

Overall Nominal Diameter: 13.005 mm

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### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	153.285 Kg/Km
Max. Recommended Pulling Tension:	400.338 N
Min. Bend Radius/Minor Axis:	129.540 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	PLTC, CM
CEC/C(UL) Specification:	CM
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):	08/10/2006
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:	Mitsubishi CC Link Signal + Power Cable

#### Flame Test

UL Flame Test:	UL1685 UL Loading
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#### Plenum/Non-Plenum

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

#### Nom. Characteristic Impedance:

Description	Impedance (Ohm)
20 AWG	110

#### Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/m)
20 AWG				60.0423

#### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
20 AWG	31.1695
18 AWG	19.0298

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
26.248

#### Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	PLTC
300 V RMS	CM

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1349A 0021000	1,000 FT	123.000 LB	RED	C	COMPOSITE CABLE PVC

#### Notes:

C = CRATE REEL PUT-UP.

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