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1-800-Belden1



### General Description:

18 AWG stranded (7x26) tinned copper conductors, flame-retardant polyolefin insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), sunlight resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	TC - Tinned Copper	1.1684

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FRPO - Flame Retardant Polyolefin	2.4384

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	55

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 8.230 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Natural
2	Blue

Pair Lay Length & Direction:

Lay Length (mm)
44.450

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C Dry

Bulk Cable Weight: 71.434 Kg/Km

Max. Recommended Pulling Tension: 378.097 N

Min. Bend Radius/Minor Axis: 82.550 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, ITC, PLTC, TC
CEC/C(UL) Specification:	CMG
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):	10/13/2005
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
PMSHA Specification:	P-MSHA SC-182/7

### Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202

### Suitability

Sunlight Resistance:	Yes
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### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)

78.000

### Nom. Inductance:

Inductance (µH/m)

0.39372

### Nom. Mutual Capacitance:

Capacitance (pF/m)

63.9795

### Nominal Velocity of Propagation:

VP (%)

64.5

### Nominal Delay:

Delay (ns/m)

5.18398

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

22.6389

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.4992

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	1.70612
10	6.49638
50	12.4022
100	17.5533
200	24.8372
400	35.1067

**Max. Operating Voltage - UL:**

Voltage
600 V RMS (NEC Type TC)
300 V RMS (NEC Type PLTC)
300 V RMS (NEC Type CMG)

**Notes (Overall)**

**Notes:** For CPE jacketed version order Part No. YM45044.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3072F C551000	1,000 FT	69.000 LB	BLUE, CAIRO	C	BRAID #18 FS PR FRPP SH PVC
3072F C5510000	10,000 FT	710.000 LB	BLUE, CAIRO	C N	BRAID #18 FS PR FRPP SH PVC
3072F C55250	250 FT	17.500 LB	BLUE, CAIRO	C	BRAID #18 FS PR FRPP SH PVC
3072F C55500	500 FT	35.000 LB	BLUE, CAIRO	C N	BRAID #18 FS PR FRPP SH PVC
3072F C555000	5,000 FT	345.000 LB	BLUE, CAIRO	C	BRAID #18 FS PR FRPP SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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