

## 2190A Composite - Data and Power Cable

For more Information  
please call

1-800-Belden1



### General Description:

Composite - (1) 4-bonded-pair UTP 24 AWG, (2)16 AWG stranded (65x34) bare copper conductors, Polyolefin insulation (pairs), PVC insulation (conductors), FR Polyethylene rod filler, Polyester separator, 24 AWG stranded (7x32) tinned copper drain wire, 85% tinned copper braid, overall TPE jacket. Jacket sequentially marked.

### Usage (Overall)

**Suitable Applications:**

CMX - Outdoor, Data Plus Power, Touring, Staging, remote stage boxes, broadcast gear, multi-point microphones

### Twisted Pair

#### Physical Characteristics

##### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
4	24	Solid	BC - Bare Copper	0.508

##### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
PO - Polyolefin	0.991

**Twisted Pair Color Code Chart:**

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown

#### Individual Shield

### Multi Conductor

#### Physical Characteristics

##### Conductor

**AWG:**

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	16	65x34	BC - Bare Copper	1.499

##### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	2.007

**Insulation Color Code Chart:**

Number	Color
1	Red
2	Black

#### Individual Shield

#### Electrical Characteristics

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)

49.215

**Nominal Velocity of Propagation:**

VP (%)  
70.000

**Max. Operating Voltage - UL:**

Voltage  
300 V RMS

**Max. Recommended Current:**

Current  
5 Amps per conductor @ 25°C

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Conductors	# Pairs
2	4

### Outer Shield

**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	Tinned Copper	85.000

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
24	7x32	Tinned Copper

**Outer Shield Separator Material:** Polyester Film

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
TPE - Thermoplastic Elastomer	0.762

**Outer Jacket Ripcord:** No

### Overall Cable

**Overall Nominal Diameter:** 8.280 mm

## Mechanical Characteristics (Overall)

**Operating Temperature Range:** -25°C To +75°C

**Bulk Cable Weight:** 111.615 Kg/Km

**Max. Recommended Pulling Tension:** 266.892 N

**Min. Bend Radius/Minor Axis:** 83.820 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMX-Outdoor

**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

## 2190A Composite - Data and Power Cable

MII Order #39 (China RoHS): Yes

### Flame Test

UL Flame Test: UL1581 Vertical Tray (VW-1)

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes - CMX - Outdoor

Suggested Connectors: Neutrik XLR Data Power NC10FXX

### Plenum/Non-Plenum

Plenum (Y/N): No

### Surface Printing (Overall)

Surface Printing: BELDEN DATA & POWER CABLE 2190A - 4PR24 2C16 E108998 CMX  
OUTDOOR SUN RES OIL RES

### Electrical Characteristics (Overall)

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Item Attributes (Overall)

Putup: 304.800 m.

Jacket Color: Matte Black

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2190A B591000	1,000 FT	78.000 LB	BLACK, MATTE		DATA & POWER CABLE 4PR24 2C16
2190A B595000	5,000 FT	390.000 LB	BLACK, MATTE		DATA & POWER CABLE 4PR24 2C16

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