



**Product:** [1695PX](#)

75 Ohm SDI Coax, RG-6, 18 AWG Solid BC, Foil + 95% TC Braid, PVDF Jacket, I/O CMP

### Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid Shield, PVDF Jacket, Indoor/Outdoor CMP

### Technical Specifications

#### Product Overview

Suitable Applications:	Outside Plant, Digital Video, 6 Gb/s UHD TV, HD-SDI 1080p
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#### Construction Details

RG Type:	6
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#### Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

#### Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.229 in (5.82 mm)
Overall Cable Diameter (Nominal):	0.229 in (5.82 mm)

#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.24 dB/100ft
3.58 MHz	0.45 dB/100ft
5 MHz	0.55 dB/100ft
7 MHz	0.65 dB/100ft
10 MHz	0.75 dB/100ft
67.5 MHz	1.74 dB/100ft
71.5 MHz	1.78 dB/100ft

88.5 MHz	1.94 dB/100ft
100 MHz	2.1 dB/100ft
135 MHz	2.4 dB/100ft
143 MHz	2.5 dB/100ft
180 MHz	2.8 dB/100ft
270 MHz	3.4 dB/100ft
360 MHz	4.0 dB/100ft
540 MHz	5.2 dB/100ft
720 MHz	6.1 dB/100ft
750 MHz	6.2 dB/100ft
1000 MHz	7.4 dB/100ft
1500 MHz	9.5 dB/100ft
2000 MHz	11.3 dB/100ft
2250 MHz	12.2 dB/100ft
3000 MHz	14.6 dB/100ft
4500 MHz	18.6 dB/100ft
6000 MHz	22.4 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft (21 Ohm/km)	2.8 Ohm/1000ft (9.2 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V (CMP)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
125°C	-20°C to 125°C

#### Bend Radius

Installation Min.
2.3 in (58 mm)

Max. Pull Tension:	92 lbs (42 kg)
Bulk Cable Weight:	41 lbs/1000ft (61 kg/km)

### Standards and Compliance

Environmental Suitability:	Indoor/OutdoorIndoor - Plenum, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### History

Update and Revision:	Revision Number: 0.12 Revision Date: 04-29-2024
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