



Product: [4505PX](#)

12 GHz Coax, 4K UHD Precision Video Cable, RG-59, 75 Ohm, 20 AWG Solid, PVDF Jacket, I/O CMP

Product Description

12 GHz, 4K UHD Precision Video Cable, 75 Ohm RG-59 Type 20 AWG solid silver plated copper conductor, foam FEP core, Duofoil® bonded to core+95% tinned copper braid, Indoor/Outdoor CMP, PVDF Jacket

Technical Specifications

Product Overview

Suitable Applications:	Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHDTV, 4K D-Cinema, 8K Quad-link UHDTV, HD-SDI 1080p, OSP
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Construction Details

RG Type:	59
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	.032 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.133 in (3.38 mm)	White

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.197 in (5.00 mm)

Overall Cable Diameter (Nominal):	0.197 in (5.00 mm)
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Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 MHz - 1600 MHz	23 dB
1600 MHz - 4500 MHz	21 dB
4500 MHz - 12000 MHz	15 dB

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.26 dB/100ft
3.58 MHz	0.59 dB/100ft
5 MHz	0.68 dB/100ft
6 MHz	0.73 dB/100ft
7 MHz	0.79 dB/100ft
10 MHz	0.93 dB/100ft

12 MHz	1.01 dB/100ft
25 MHz	1.41 dB/100ft
55 MHz	2.01 dB/100ft
67.5 MHz	2.20 dB/100ft
71.5 MHz	2.26 dB/100ft
88.5 MHz	2.49 dB/100ft
100 MHz	2.63 dB/100ft
135 MHz	3.04 dB/100ft
143 MHz	3.13 dB/100ft
180 MHz	3.50 dB/100ft
270 MHz	4.31 dB/100ft
360 MHz	5.05 dB/100m
540 MHz	6.33 dB/100ft
720 MHz	7.44 dB/100ft
750 MHz	7.61 dB/100ft
1000 MHz	8.96 dB/100ft
1500 MHz	11.32 dB/100ft
2000 MHz	13.38 dB/100ft
2250 MHz	14.35 dB/100ft
3000 MHz	17.00 dB/100ft
4500 MHz	21.64 dB/100ft
6000 MHz	25.78 dB/100ft
12000 MHz	39.48 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
10.1 Ohm/1000ft (33.1 Ohm/km)	2.5 Ohm/1000ft (8.2 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
125°C	-20°C To +125°C

Bend Radius

Stationary Min.
2.0 in (51 mm)

Max. Pull Tension:	55 lbs (25 kg)
Bulk Cable Weight:	29 lbs/1000ft (43 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorPlenum, 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: 0.15 Revision Date: 04-29-2024
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