



Product: [4794P](#) 

4K UHD Coax for 12G-SDI, 75 Ohm, Series 7, 16 AWG Solid SC, Tri-Shield, PVDF Jkt, CMP

Product Description

75 Ohm SDI Coax, Series 7, 16 AWG Solid Silvered Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid + Foil Shield, PVDF Jacket, CMP

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
------------------------	--

Construction Details

Series Type:	7
--------------	---

Conductor

Size	Stranding	Nom. Diameter	Material
16	Solid	0.051 in	SC - Silvered Copper

Insulation

Material	Nom. Insulation Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.225 in (5.72 mm)

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.297 in

Electrical Characteristics

Return Loss

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

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.20 dB/100ft
3.58 MHz	0.37 dB/100ft
5 MHz	0.43 dB/100ft
6 MHz	0.46 dB/100ft
7 MHz	0.48 dB/100ft
10 MHz	0.57 dB/100ft
12 MHz	0.61 dB/100ft
25 MHz	0.84 dB/100ft

55 MHz	1.23 dB/100ft
67.5 MHz	1.36 dB/100ft
71.5 MHz	1.39 dB/100ft
88.5 MHz	1.54 dB/100ft
100 MHz	1.63 dB/100ft
135 MHz	1.92 dB/100ft
143 MHz	1.98 dB/100ft
180 MHz	2.23 dB/100ft
270 MHz	2.79 dB/100ft
360 MHz	3.28 dB/100ft
540 MHz	4.18 dB/100ft
720 MHz	4.98 dB/100ft
750 MHz	5.11 dB/100ft
1000 MHz	6.08 dB/100ft
1500 MHz	7.83 dB/100ft
2000 MHz	9.41 dB/100ft
2250 MHz	10.13 dB/100ft
3000 MHz	12.2 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
4.0 Ohm/1000ft (13 Ohm/km)	2.0 Ohm/1000ft (6.6 Ohm/km)	16.4 pF/ft (53.8 pF/m)	75 Ohm	83%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	0°C to +75°C

Bend Radius

Installation Min.
3 in

Max. Pull Tension:	84 lbs (38 kg)
Bulk Cable Weight:	59 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum/Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	4794R

History

Update and Revision:	Revision Number: 0.90 Revision Date: 09-07-2025
----------------------	---

Part Numbers

Variants

Item #	Color	Putup Type	Length
4794P 0101000	Black	Reel	1,000 ft
4794P 0102500	Black	Reel	2,500 ft
4794P 0061000	Blue	Reel	1,000 ft
4794P 0051000	Green, Dark	Reel	1,000 ft
4794P 0031000	Orange	Reel	1,000 ft
4794P 0071000	Violet	Reel	1,000 ft

4794P 0091000	White	Reel	1,000 ft
4794P 0041000	Yellow	Reel	1,000 ft

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.