

APPLICATION

Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications. The cable is UV-resistant and suitable for indoor and outdoor use.

CONSTRUCTION



- 1 Inner conductor Solid soft annealed copper
- 2 Dielectric Gas injected PE
- 3.1 Braid Annealed tinned copper
- AL-PET, bonded to the jacket 3.2 Foil PVC
- 4 Sheath

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor.	
Diameter:	$1.02 \text{ mm} \pm 0.03 \text{ mm}$
2. Dielectric:	
Diameter:	$4.57 \text{ mm} \pm 0.15 \text{ mm}$
3. Outer conductor:	
Nominal diameter screen:	5.4 mm
Coverage braid:	95 % ± 5 %
Foil overlap:	$\geq 2 \text{ mm}$
4. Sheath:	
Diameter:	$6.96 \text{ mm} \pm 0.2 \text{ mm}$
5. Cable:	
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Reaction to fire according IEC 60332-3-1	Pass
Reaction to fire according EN50575	Eca
Maximum tensile strength of cable:	300 N
Minimum static bend radius:	70 mm

	TECHNICAL DATA SHEET	Code	YE04791
DELLER		version	1
SENDING ALL THE RIGHT SIGNALS	Precision Video Cable	date	2017-12-08
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Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Nominal DC resistance inner conductor:	21 Ω /km
Nominal DC resistance outer conductor:	9.6 Ω/km
Capacitance:	53 pF/m ±
Velocity ratio:	0.82 ± 0.0
Nominal delay:	4.07 ns/m
Insulation resistance:	$> 10^4 \mathrm{M}\Omega$
Voltage test of dielectric:	2 kVdc
Return loss at 5-1600 MHz:	$\geq 23 \text{ dB}^*$
$1600-4500 \text{ MHz:} \ge 21 \text{ dB}^*$	
4500-6000 MHz: $\geq 15 \text{ dB}^*$	
8	

* Max. 1 peak value 4 dB lower than specified.

Attenuation at	Nominal
1 MHz:	0.79 dB/100m
3.6 MHz:	1.44 dB/100m
5 MHz:	1.71 dB/100m
6 MHz:	1.87 dB/100m
7 MHz:	2.00 dB/100m
10 MHz:	2.33 dB/100m
12 MHz:	2.56 dB/100m
25 MHz:	3.54 dB/100m
67.5 MHz	5.41 dB/100m
71.5 MHz:	5.55 dB/100m
88.5 MHz:	6.10 dB/100m
100 MHz:	6.40 dB/100m
135 MHz:	7.35 dB/100m
143 MHz:	7.55 dB/100m

$53 \text{ pF/m} \pm 2$	pF/m
0.82 ± 0.02	
4.07 ns/m	
$> 10^4 \mathrm{M}\Omega.\mathrm{k}$	m
2 kVdc	
$\geq 23 \text{ dB}^*$	
enuation at	Nom
180 MHz:	8.43 dI
270 MHz:	10.40 dE

Attenuation at	Nominal
180 MHz:	8.43 dB/100m
270 MHz:	10.40 dB/100m
360 MHz:	12.11 dB/100m
540 MHz:	14.77 dB/100m
720 MHz:	17.39 dB/100m
750 MHz:	17.72 dB/100m
1000 MHz:	20.67 dB/100m
1500 MHz:	25.59 dB/100m
2000 MHz:	30.19 dB/100m
2250 MHz:	32.15 dB/100m
3000 MHz:	37.73 dB/100m
4500 MHz:	47.58 dB/100m
6000 MHz:	58.07 dB/100m



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.