

Technical Document
WF4000 4K Ultra HD 12G-SDI
75ohm Coax LSNH Black



Part Number: 594000E-LSNH-BLK
Description: WF4000 4K Ultra High Definition
 12G-SDI 75ohm Coax LSNH Black



Product Construction

Alternative to Belden	:	4694ANH
Conductor Material	:	Silver Plated Copper
Conductor Stranding	:	Solid, 1/1.02mm
Dielectric Material	:	Foam Polyethylene
Dielectric Diameter	:	4.57mm ± 0.15
Screen Material & Coverage 1	:	Overall Bonded Aluminium Foil, Coverage >100%
Screen Material & Coverage 2	:	Tinned Copper Wire Braid, Coverage 95% ± 3
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	6.95mm ± 0.2mm
Temperature Range	Fixed	-15°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	68 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 20.9 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 9.0 Ω /km @ 20°C
Characteristic Impedance	:	75 Ω ± 2
Nominal Capacitance	:	52 pF/m ± 3
Velocity of Propagation	:	84.5%
Inductance	:	0.35µH/m
Nominal Delay	:	3.95 ns/m

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
1	≤ 0.8 dB	71.5	≤ 5.3 dB	720	≤ 16.0 dB
3.58	≤ 1.4 dB	88.5	≤ 5.8 dB	1000	≤ 19.0 dB
5	≤ 1.7 dB	100	≤ 6.2 dB	1500	≤ 24.0 dB
6	≤ 1.8 dB	135	≤ 6.8 dB	2000	≤ 28.0 dB
7	≤ 1.9 dB	143	≤ 7.0 dB	2250	≤ 30.0 dB
10	≤ 2.3 dB	180	≤ 8.0 dB	3000	≤ 35.0 dB
12	≤ 2.5 dB	270	≤ 10.0 dB	4500	≤ 43.0 dB
25	≤ 3.4 dB	360	≤ 11.0 dB	6000	≤ 50.0 dB
67.5	≤ 5.2 dB	540	≤ 14.0 dB	12000	≤ 75.0 dB

Return Loss @ 20°C

Frequency (MHz)	Return Loss
5MHz - 1.6GHz	≥ 23 dB
1.6GHz - 4.5GHz	≥ 21 dB
4.5GHz - 12GHz	≥ 15 dB

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016



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