

ET-S12GSC-01

12G-SDI Cable



Product overview

The 12G SDI standard can provide uncompressed, delay free signal distribution on the coaxial cable, while the cable length is incomparable to the competitive products. 12G SDI also supports the ANC (auxiliary data) used in the broadcast system. These packets are distributed in the vertical or horizontal blanking area of the signal.

Construction

Conductor	Material	Silver Copper
	Diameter	19 x [0.19 mm ± 0.01 mm]
	Wire Gauge	20 AWG
Insulation	Material	FPE
	Diameter	3.71 mm ± 0.1 mm
AL Foil	Construction	With Foil
	Material	AP
	Width	14 mm
	Thickness	> 0.024 mm
	Overlap Rate	≥ 12%
Braid	Material	Tinned Copper
	Diameter	0.12 mm
	Braid Coverage	90% - 98%
Jacket	Material	PVC
	Diameter	5.95 mm ± 0.15 mm

Packing

Package length	10m / 30m / 50m / 100m
	Customized Optional
Box type	Ordinary / Waterproof / Trolley
	Customized Optional

Test Data

Dielectric Strength	Not breakdown with 2kV DC for 1 min
Sheath Strength	Not breakdown with 3kV
Characteristic Resistance	75Ω ± 5Ω
Insulation Resistance	5000MΩ/km
Elongation at Break (Wire)	≥ 15%
Elongation at Break (Sheath)	≥ 150%
Low Temperature Bending	Not cracked
Thermal Shock	Not cracked
Operating Temperature	- 20°C to +60°C (-4°F to 140°F)
Storage Temperature	- 10°C to +40°C (14°F to 104°F)

Certifications and Standards

Certification	UL, CE, CPR Eca
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Technical Test [Attenuation @68°F(20°C)]

Frequency(MHZ)	Maximum(dB/100ft)	Maximum(dB/100m)
1	0.26	0.85
5	0.54	1.77
10	0.73	2.40
55	1.48	4.86
100	1.92	6.30
180	2.49	8.17
270	3.02	9.91
360	3.50	11.48
540	4.37	14.34
750	5.17	16.96
1000	5.97	19.59
1500	7.40	24.28
2000	8.60	28.22
2250	9.20	30.18
3000	10.78	35.37
4500	13.38	43.90
6000	15.68	51.44
12000	23.80	78.08