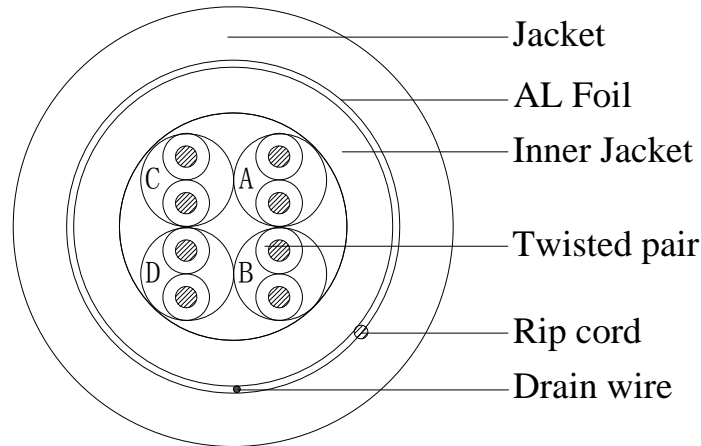




PRODUCT SPECIFICATIONS

PART#: <b>CREST-8G</b>		DESCRIPTION: CREST-8G- HYBRID CAT5E/6- 24AWG HDPE INSULATED SOLID BC CONDUCTORS, SHIELDED S/FTP WITH 100% AL Foil + 40% TC BRAID SHIELD, TWISTED PAIRS, w/DRAIN, PVC JKT- BLUE- 500FT/150M SPOOL			
Edition	A	Established	2013/07/23	Revised	
Approval	Richard	Checked	John	Finish	Leo



**Standard:** UL 444, ANSI/TIA/EIA-568-C.2 and ISO/IEC 11801 Ed2 CLASS D

**Application:** SCP Crest-DM cable is a high performance, single cable wiring solution for Crestron's DigitalMedia® systems and is comparable to Crestron's DM-CBL-8G-NP. Crest-DM is a hybrid Cat5e-Cat6 S/FTP shielded twisted-pair (STP) cable that is engineered to deliver optimum performance for use in data networking and high-definition AV signal distribution applications. SCP manufactures and tests these cables to significantly exceed the CAT5e specifications for bandwidth, crosstalk, and interference suppression. This cable can also be used wherever a high-quality shielded CAT5e cable is required.

**Construction Characteristics:**

<b>Conductor</b>	Material	Solid Bare Copper	
	Size	24AWG X 4P	
	Construction	1/0.540±0.005mm	
<b>Insulation</b>	Material	HDPE	
	Min. Thickness	0.198mm	
	AVG. Thickness	0.215mm	
	Diameter	0.97±0.01mm	
	Colors		Blue-White/Blue
			Orange-White/Orange
			Green-White/Green
		Brown-White/Brown	

<b>Inner Jacket</b>	Material	PVC
	AVG. Thickness	0.30mm
	Min. Thickness	0.27mm
	Diameter	4.80±0.10mm
	Colors	White
<b>Shield</b>	Drain wire	1/0.40±0.004mm
	Shield	AL Foil
<b>Jacket</b>	Material	PVC
	AVG. Thickness	0.45mm
	Min. Thickness	0.40mm
	Diameter	6.20±0.10mm
	Rip Cord	Nylon
	Colors	Per request

### Electrical & Physical Characteristics:

rating	75°C 30V		
Conductor Resistance	Max 78.8ohm/km at 20°C		
Dielectric Strength	Min AC1.5KV		
Spark Test	5.0KV		
AC Leakage Current Through overall Jacket	AC 1500V ≤10mA		
Insulation	Unaged	Tensile Strength	16.5 Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2 Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8 Mpa
		Elongation	150%
	Aged	Tensile Strength	11.7 Mpa(100°C 168h)
		Elongation	80%(100°C 168h)
Cold Bend Test	-20°C 4hours No Cracking		
DC Resistance Unbalance	Max 5%		
Pair-to-Ground Capacitance Unbalance	Max 3300pF/km		
Characteristic Impedance	1~350MHZ 100 ± 15OHM		
Nominal Velocity of Propagation (%)	67~69		
Propagation Delay	350MHZ Max 536ns/100m		
Delay Skew	1~350MHZ Max 45ns/100m		
<b>Marking:</b>			
STRUCTURED CABLE PRODUCTS --- P/N CREST-8G --- DM 8G 24AWG STP CMG 75C -- ETL CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9      xxxxFT			
<b>Packaging:</b>			
Approx. Weight(kg)	Approx. Dimension(mm)	package	Packages per Pallet
7.75	280X200X150X9	500 ft/Spool	80/64

### Performance-1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2.0	2.0	65.3	74.1	62.3	71.2	63.3	72.1
4	4.1	4.0	56.3	67.6	53.3	65.2	52.2	63.6
8	5.8	5.6	51.8	58.9	48.8	56.9	46.0	53.3
10	6.5	6.2	50.3	60.4	47.3	58.8	43.8	54.2
16	8.2	7.9	47.2	52.4	44.2	50.2	39.0	44.5
20	9.3	8.9	45.8	53.9	42.8	51.5	36.5	45.0
25	10.4	9.9	44.3	53.7	41.3	51.7	33.9	43.8
31.25	11.7	11.2	42.9	49.1	39.9	46.5	31.2	37.9
62.5	17.0	15.9	38.4	50.6	35.4	47.6	21.4	34.7
100	22.0	20.6	35.3	41.1	32.3	38.0	13.3	20.5
155	28.1	26.3	32.4	42.1	29.4	41.5	4.3	15.8
200	32.4	29.8	30.8	35.2	27.8	31.3	---	---
300	41.0	36.6	28.1	34.3	25.1	31.9	---	---
350	44.9	39.8	27.1	29.4	24.1	28.5	---	---

### Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	20.0	25.6	63.8	79.0	60.8	77.9	60.3	69.2
4	23.0	35.4	51.8	68.0	48.8	66.7	49.2	61.2
8	24.5	30.8	45.7	62.0	42.7	61.1	43.0	51.3
10	25.0	29.4	43.8	60.3	40.8	59.1	40.8	52.6
16	25.0	28.3	39.7	56.9	36.7	55.2	36.0	42.3
20	25.0	30.4	37.8	55.3	34.8	53.6	33.5	42.6
25	24.3	27.3	35.8	53.6	32.8	51.8	30.9	41.8
31.25	23.6	28.4	33.9	52.9	30.9	49.8	28.2	35.3
62.5	21.5	31.0	27.8	47.6	24.8	44.2	18.4	31.7
100	20.1	24.6	23.8	34.7	20.8	35.3	10.3	17.4
155	18.8	20.9	20.0	42.0	17.0	36.9	1.3	15.2
200	18.0	26.7	17.7	34.9	14.7	32.8	---	---
300	16.8	19.0	14.2	29.8	11.2	28.0	---	---
350	16.3	18.9	12.9	33.3	9.9	32.3	---	---