

# SPC PART#: CREST-3

CREST-1 + 2x CAT5E 24 AWG 4PR UTP, BUNDLED PVC JKT- TEAL-  
500 FT SPOOL



**Structured Cable Products™**  
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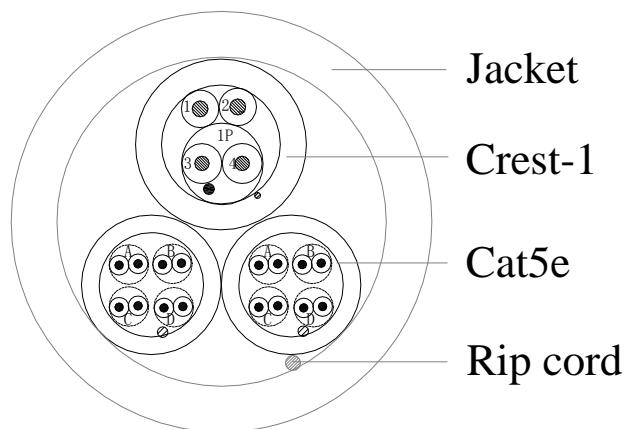
Edition A  
Approval Richard

Established Date 2013/07/20  
Checked John

Revised Date 2013/07/20  
Finish Leo

**Standard:** UL 444 & UL 13 、  
NEC Article 760 & NEC Article 725

**Application:** SCP Crest-1 control cable provides communications link between Crestron® control systems, touchpanels, keypads, tuners, audio processors, video switchers, camera pan/tilts, expansion modules, and other Crestron devices. Compare to Crestron's Cresnet® cable.



## Construction Characteristics:

### Conductor (CREST-1)

Material: Stranded Bare Copper  
Size: 18AWG X 2C  
Construction: 16/0.254±0.004mm

### Insulation

Material: PVC  
Min. Thickness 0.24mm  
AVG. Thickness 0.27mm  
Diameter 1.70±0.05mm  
Colors Black & Red

### Conductor 1P

Material Stranded Bare Copper  
Size 22AWG X 2C  
Construction 7/0.254±0.004mm

### Insulation

Material FPE  
Min. Thickness 0.56mm  
AVG. Thickness 0.62mm  
Diameter 2.00±0.05mm  
Colors Blue & White

### Shield

Drain wire(TC) 7/0.20±0.004mm  
Shield AL Foil

### Assembly(2C+1P)

Core wrap PE Tape

### Jacket

Material PVC  
AVG. Thickness 0.75mm  
Min. Thickness 0.67mm  
Diameter 6.35±0.10mm  
Rip Cord Nylon  
Colors Per request

### Conductor (CAT5E)

Material Solid Bare Copper  
Size 22AWG X 4P  
Construction 1/0.250±0.004mm

### Insulation

Material HDPE  
Min. Thickness 0.188mm  
AVG. Thickness 0.205mm  
Diameter 0.91±0.01mm  
Colors  
Blue- White/Blue  
Orange-White/Orange  
Green-White/Green  
Brown-White/Brown

### Jacket

Material PVC  
AVG. Thickness 0.60mm  
Min. Thickness 0.54mm  
Diameter 5.10±0.10mm  
Rip Cord Nylon  
Colors Grey & Blue

### Assembly(2C+1P)

1CREST-1+1CAT5e  
12.00±0.20mm

### Jacket

Material PVC  
AVG. Thickness 0.75mm  
Min. Thickness 0.70mm  
Diameter 13.00±0.20mm  
Rip Cord Nylon  
Colors Per request

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CREST-1 + 2x CAT5E 24AWG UTP, PVC JKT



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## Electrical & Physical Characteristics (CREST-1)

rating 75°C 300V

**Conductor Resistance(18AWG)** Max 22.8ohm/km at 20°C

**Conductor Resistance(22AWG)** Max 53.5ohm/km at 20°C

**Dielectric Strength** Min AC1.5KV

**AC Leakage Current Through overall Jacket** AC 1500V ≤ 10mA

**Twists per foot** 3.0

### Insulation PVC Unaged

Tensile Strength 13.8 Mpa

Elongation 150%

### Insulation PVC Aged

Tensile Strength 11.7 Mpa(100°C 168h)

Elongation 80%(100°C 168h)

Jacket

### Jacket Unaged

Tensile Strength 13.8 Mpa

Elongation 150%

### Jacket Aged

Tensile Strength 11.7 Mpa(100°C 168h)

Elongation 80%(100°C 168h)

Cold Bend Test -20°C 4hours No Cracking

## Marking:

STRUCTURED CABLE PRODUCTS --- P/N CREST-1 --- 2C/22 AWG BC STRANDED SHIELDED W/  
DRAIN + 2C/18 AWG BC STRANDED CMR FT4 75C -- (UL) OR C(UL) E198137 CE EU RoHS EC  
ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET

# SPC PART#: CREST-3

CREST-1 + 2x CAT5E 24AWG UTP, PVC JKT



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## Electrical & Physical Characteristics (CAT5E)

rating 75°C 30V

**Conductor Resistance(18AWG)** Max 93.8ohm/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%

### Insulation Aged

Tensile Strength 14.2 Mpa(100°C 168h)

Elongation 250%(100°C 168h)

### Jacket Unaged

Tensile Strength 13.8 Mpa

Elongation 150%

### Jacket 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

## Marking:

STRUCTURED CABLE PRODUCTS --- P/N CAT5E --- CAT5E ENHANCED 350 MHz 4 PR 24 AWG UTP  
VERIFIED TO ANSI/TIA-568-C.2 CMR FT4 75C -- (UL) OR C(UL) E198134 CE EU RoHS EC ZONE/  
DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET

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## 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	80	62.3	79.0	63.3	78.0
4	4.1	3.7	56.3	67.1	53.3	65.7	52.2	63.4
8	5.8	5.2	51.8	65.5	48.8	62.5	46.0	60.3
10	6.5	5.9	50.3	62.1	47.3	59.7	43.8	56.2
16	8.2	7.4	47.2	57.9	44.2	56.3	39.0	50.5
20	9.3	8.2	45.8	57.6	42.8	54.7	36.5	49.4
25	10.4	9.2	44.3	54.3	41.3	51.7	33.9	45.1
31.25	11.7	10.3	42.9	54.7	39.9	52	31.2	44.4
62.5	17.0	14.6	38.4	49.4	35.4	46.7	21.4	34.8
100	22.0	18.6	35.3	42.5	32.3	41.7	13.3	23.9
155	28.1	22.9	32.4	48.8	29.4	45.7	4.3	25.9
200	32.4	25.7	30.8	42.3	27.8	38.9	---	---
300	41.0	31.6	28.1	39.7	25.1	35.8	---	---
350	44.9	34.3	27.1	44	24.1	34.2	---	---

## Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFNEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	20.0	24.1	63.8	76.2	60.8	73.2	60.3	77.0
4	23.0	25.2	51.8	61.2	48.8	59.5	49.2	62.0
8	24.5	25.7	45.7	52.2	42.7	51.5	43.0	57.3
10	25.0	27.1	43.8	50.8	40.8	50.5	40.8	53.8
16	25.0	26.2	39.7	47.7	36.7	45.5	36.0	48.9
20	25.0	26.1	37.8	47.9	34.8	46.4	33.5	46.5
25	24.3	26.4	35.8	48.7	32.8	45.9	30.9	42.5
31.25	23.6	24.6	33.9	43.9	30.9	41.1	28.2	41.7
62.5	21.5	24.0	27.8	34.4	24.8	34.0	18.4	32.1
100	20.1	22.8	23.8	29.0	20.8	27.9	10.3	23.1
155	18.8	26.5	20.0	33.6	17.0	26.3	1.3	22.8
200	18.0	28.1	17.7	27.8	14.7	23.2	---	---
300	16.8	26.3	14.2	35.7	11.2	23.9	---	---
350	16.3	28.5	12.9	31.6	9.9	21.3	---	---

### Jacket Marking:

STRUCTURED CABLE PRODUCTS --- P/N CREST-3 --- 2x CAT5E  
ENHANCED 350MHZ 24 AWG UTP + 2C/22 AWG BC STRANDED  
SHIELDED W/DRAIN + 2C/18 AWG BC STRANDED - BUNDLED  
CMR FT4 75C -- (UL) OR c(UL) E198134 CE EU RoHS EC ZONE/  
DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET

### Packaging:

Approx. Weight(kg) 28.60  
Approx. Dimension(mm)  
480X250X200X15  
package 500 ft/Spool  
Packages per Pallet 16/12

Rev 07/13