

SPC PART#: CREST-3

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



Structured Cable Products™
Quality Installations Deserve Quality Products

www.spcat5e.com

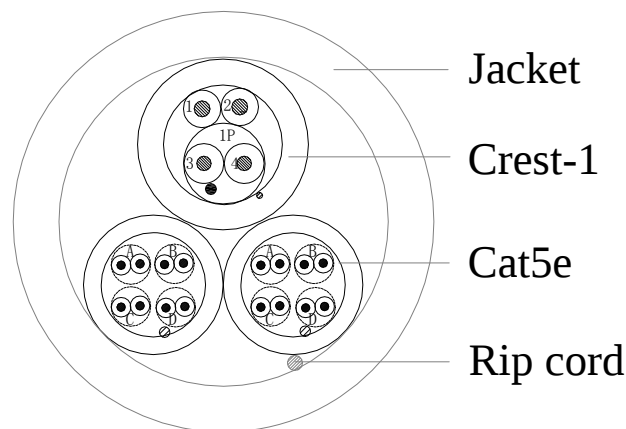
Edition A
Approval Richard

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

Rev 07/13

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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