

# SPECIFICATION FOR APPROVAL

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**STYLE :** CresCatD Compatible

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**SIZE :** 18AWG ×2C+( 22AWGX1P A+E)+2\*CAT5E

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**APPROVAL MARK :** CL3R

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**PART NO. :** CSTCATD

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APPROVAL	CONFIRM	MAKER
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**EDITION : 1.0**

**REVISED DATE :**

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SPECIFICATION			
STYLE	CresCatD Compatible		
SIZE	18AWG/2C+( 22AWG ×1P A+E )+2*CAT5E	PART NO. : CSTCATD	
CONSTRUCTION:			
CONDUCTOR	SIZE	18AWG/2C	22AWG/1P
	STRUCTURE	16/ 30AWG( 0.254mm)	7/ 30AWG(0.252mm)
	DIAMETER	0.046" (APPROX.)	0.030"(APPROX.)
	MATERIAL	BARED STRANDED COPPER	BARED SOLID COPPER
INSULATION	MATERIAL	SR-PVC	FOAM-PE CHARACTERISTIC IMPEDECE: 110Ω ±5Ω
	AVERAGE THICKNESS	0.010"	0.026"
	DIAMETER	0.067" ±0.004"	0.082" ±0.0004"
	COLOR	BLACK.RED	BLUE,WHITE
ASSEMBLY	DIAMETER	-----	0.165" ( APPROX.)
WRAP	MATERIAL	-----	ALMYLAR
DRAIN WIRE	STRUCTURE	-----	TIN COPPER 7/0.0078"
ASSEMBLY	DIAMETER	0.177"	
RIP CORD	TEDLON	1000D	
INNER JACKET	MATERIAL	PVC(According to EPA3050B, Pb<90ppm; According to EN1122:2001,Cd<5ppm)	
	AVERAGE THICKNESS	0.035"	
	DIAMETER	0.251" ±0.008"	
	COLOR	GREEN/ BLACK STRIPE	

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SPECIFICATION		
STYLE	CresCatD Compatible	
SIZE	18AWG/2C+( 22AWG ×1P A+E )+2*CAT5E	PART NO. : CSTCATD
CONSTRUCTION:		
CONDUCTOR	SIZE	2*CAT5E
	STRUCTURE	1/0.0202INCH
	DIAMETER	0.020±0.0002 INCH
	MATERIAL	BARE ANNEALED SOLID COPPER
INSULATION	MATERIAL	HDPE
	AVERAGE THICKNESS	0.0079 INCH
	DIAMETER	0.0362 ±0.0002INCH
	COLOR	ORANGE—WHITE/ORANGE BLUE—WHITE/BLUE GREEN—WHITE/GREEN BROWN—WHITE/BROWN
ASSEMBLY	DIAMETER	0.1484 INCH
RIP CORD	TEDLON	1000D
INNER-JACKET	MATERIAL	PVC(According to EPA3050B, Pb<90ppm:
	AVERAGE THICKNESS	0.021"
	DIAMETER	0.205" ±0.002"
	COLOR	BLUE, WHITE
ASSEMBLY	DIAMETER	0.444"
WRAP	PE BELT	1 PIECE
RIP CORD	TEDLON	1000D
WARP	MATERIAL	MYLAR
JACKET	MATERIAL	PVC(According to EPA3050B, Pb<90ppm; According to EN1122:2001,Cd<5ppm)
	AVERAGE THICKNESS	0.039"
	DIAMETER	0.559" ±0.008"
	COLOR	GREEN/ BLACK
PACKING		250'/reel
NET Weight		110.5lb/1000ft

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			PART NO : CM2201PT93	
ITEM SIZE		18AWG / 2C	22AWG / 1P	
RATING TEMPERATURE & VOLTAGE		75°C 300V		
CONDUCTOR RESISTANCE (MAX AT 20°C)		21.8KΩ /KM	55KΩ /KM	
INSULATION	UNAGED	TENSILE STRENGTH	3000 PSI MIN.	-----
		ELONGATION	100%	-----
	AGED	TENSILE STRENGTH	70% UNAGED( 113 ± 1.0°C ×168 H ) MIN.	-----
		ELONGATION	70% UNAGED( 113 ± 1.0°C ×168 H ) MIN.	-----
JACKET	UNAGED	TENSILE STRENGTH	1500PSI MIN.	
		ELONGATION	100% MIN.	
	AGED	TENSILE STRENGTH	70% UNAGED MIN.(100 ±1°C ×168 H)	
		ELONGATION	65% UNAGED MIN.(100 ±1°C ×168 H)	
HEAT SHOCK TEST		NO CRACK ( 121 ±1°C ×1 H )		
COLD-BEND TEST		NO CRACK ( -10 ±1°C ×4 H )		
DEFORMATION TEST		T2/T1 > 0.45 ( 121 ±1°C ×1 H )		
FLAME TEST		OK (CM)		

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ELECTRICAL & PHYSICAL PROPERTIES			PART NO. : CSTCATD
ITEM SIZE		24AWG×4P	
VOLTAGE-WITHSTAND TEST	INSULATION	1.5 kV AC FOR A MINIMUM OF 2 S	
	JACKET	0.85 Kv AC FOR A MINIMUM OF 2 S	
SPARK TEST		1.75 kV AC/2SEC	
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN.
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	75% UNAGED( 100 ±2°C ×48 H ) MIN.
		ELONGATION	75% UNAGED( 100 ±2°C ×48 H ) MIN.
JACKET	UNAGED	TENSILE STRENGTH	2000 PSI MIN.
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	85% UNAGED( 100 ±2°C ×240 H ) MIN.
		ELONGATION	50% UNAGED( 100 ±2°C ×240 H ) MIN.
D-C RESISTANCE ( MAX. AT 20°C)		8.94 OHMS/100m	
D-C RESISTANCE UNBALANCE ( MAX.)		5 %	
PAIR-TO-GROUND CAPACITANCE UNBALANCE MAX.		330 pF/100m	
NOMINAL IMPEDANCE (1~100.0MHZ)		100±15 Ω	
INSULATION SHRINKBACK		150m/m, 121°C±1°C×1HR≤ 9.5m/m	
COLD BEND TEST		-20°C×4HRS NO.CRACK	
FLAME RETARDANT TEST		CMR	
CHARACTERISTIC IMPEDANCE		1 ~ 350 MHz 100±15 OHMS	
STRUCTURAL RETURN LOSS		350 MHz 10.6dB MIN.	
PROPAGATION DELAY		350 MHz 536nS/100m MAX.	
DELAY SKEW		1 ~ 350 MHz 40nS/100m MAX.	

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ITEM(d B) Frequency (MHz)	ATT MAX. (dB/100 m)	NEXT MIN. (d B)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB/100 m)	PS. ELFEXT MIN. (dB/100 m)	R.L. MIN. (d B)
1	2.0	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	53.2	51.7	48.7	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.3	39.1	44.3	36.1	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1
155	28.1	32.5	4.4	29.5	1.4	20.0	17.0	18.8
200	32.4	30.8	N.A	27.8	N.A	17.7	14.7	18.0
240	36	29.6	N.A	26.6	N.A	16.2	13.2	17.4
300	41	28.2	N.A	25.2	N.A	14.2	11.2	16.8
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	16.3

MARKING :

JACKET MARKING: CRESTRON COMPATIBLE 2/C 18, 2/C 22, 16/ C 24 SHIELDED CM 75°C (UL) C(UL)  
E142890-D XXXXXXFT