

Technical Specifications

Product Line: RVLNRC5E

Description

4 pair 24 AWG solid, twisted, and unshielded cable
 NEC type CMR and CEC type CMR FT4. Third party verified to ANSI/TIA-568C Category 5e performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC article(s) 725, 800, and 760.

Conductor

Cat 5e: 24 AWG
 Solid annealed bare copper conductors
 Diameter: 0.019" | 0.49mm

Electrical

DC resistance: $\leq 28.6 \Omega / 1000'$ | $93.8 \Omega/KM$
 DCR Unbalance: $\leq 5.0\%$
 Capacitance: 14.0 pF/FT | 45.9 pF/M
 Impedance: $100 \pm 15 \Omega$
 Propagation Delay (Skew): 45ns/100m MAX
 Velocity of Propagation: 68%
 Voltage rating: 300V
 Pair to ground capacitance Unbalance: $\leq 330 \text{ pF/100M}$
 Maximum current: 1.4A@25°C

Insulation

High density polyethylene
 Wall thickness: 0.0085" | 0.216mm
 Diameter: 0.036" | 0.91mm

Regulatory

ANSI/TIA-568.2-D Category 5E
 NEC: CM 60°C
 CEC: CMG FT4 60°C
 Eurospec CPR Eca
 EU RoHS III 2015/863/EU Compliant
 REACH (EC) No 1907/2006 Compliant

Color Code

Pair 1: Orange, White/orange stripe
 Pair 2: Blue, White/blue stripe
 Pair 3: Green, White/green stripe
 Pair 4: Brown, White/brown stripe

Packages

Nested Box: 1000' | 305M
 Weight: 20 Lbs/1000' | 30 Kg/KM

Assembly

Pairs twisted in varying lay lengths with co-extruded like striped conductor
 4 twisted pairs cabled in a left hand lay on a common axis

Installation

Pull Tension: 25 Lbs | 111 N
 Bend radius: 0.76" | 20mm unloaded
 Bend radius: 1.52" | 40mm loaded

Construct

Ripcord under jacket

Applications

Riser LAN systems 10/100/1000BaseT
 Riser Phone, Voice, Video over IP and security video
 BALUN support and media infrastructure
 Infrared, audio

Shield

N/A

Performance

LAN: 300 feet
 Passive Baluns up to 2500 feet

Jacket

Flame rated polyvinyl chloride
 Colors: Black, Blue, White, Green, Gray, Yellow
 Wall thickness: 0.018" | 0.45mm
 Diameter: 0.189" | 4.80mm

Final Outside Diameter (inches)

0.189

Specification Revision Date:

December 5, 2019



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Cat5E Performance Data:

Frequency	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
(MHz)	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.76	48.76	23.01	552.00	
8	5.77	51.75	48.75	45.98	42.98	45.74	42.74	24.52	546.73	
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	
20	9.27	45.78	42.78	36.51	33.51	37.78	34.78	25.00	542.05	
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	
31.25	11.72	42.88	39.88	31.16	28.16	33.90	30.90	23.64	540.44	
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	
100	21.98	35.30	32.30	13.32	10.32	23.80	20.80	20.11	537.60	
150	27.54	32.66	29.66	5.12	2.12	20.28	17.28	18.87	536.94	
200	32.42	30.78	27.78	-1.64	-4.64	17.78	14.78	18.00	536.55	
250	36.85	29.33	26.33	-7.52	-10.52	15.84	12.84	17.32	536.28	
300	40.97	28.14	25.14	-12.83	-15.83	14.26	11.26	16.77	536.08	
350	44.85	27.14	24.14	-17.71	-20.71	12.92	9.92	16.30	535.92	

Values above 100MHz are for information only.

