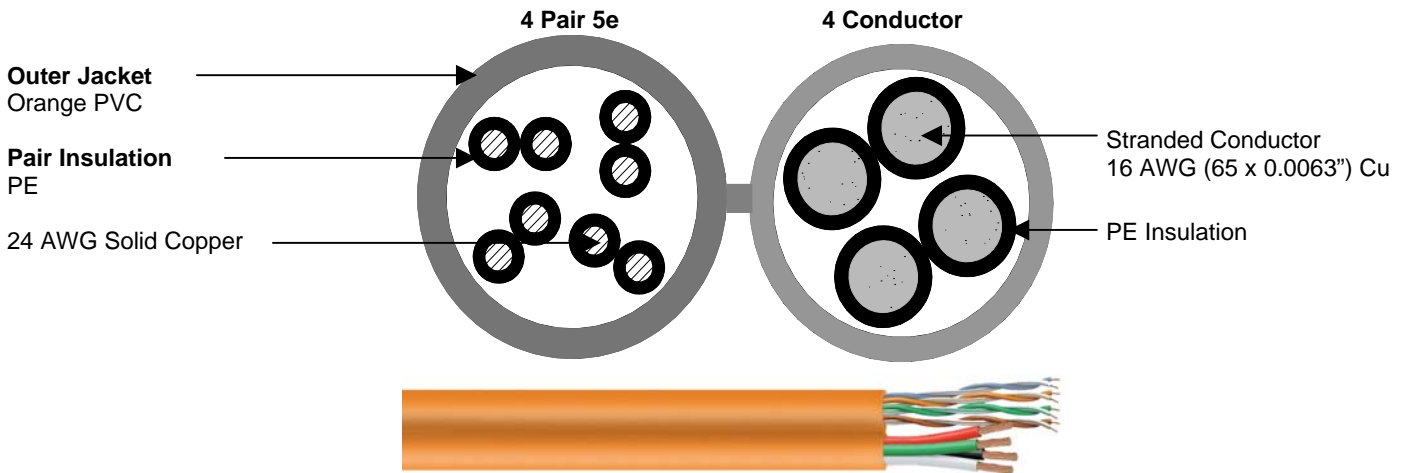


Residential Category 5e 16 AWG Four Conductor Catalog #UH58891 Non-Plenum: ETL Type CMR



ELECTRICAL PROPERTIES (16 AWG):

Sparker Test: 2000 VAC
 DCR: 3.9 Ohms/1000 ft. nom.
 Dielectric Strength: Wire to Wire – 3 Sec. @ 2500 VDC

Pair Identification

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

16 AWG Colors

Black
White
Red
Green

Mechanical Specification

	Cat 5e	4 x 16 AWG
Nominal Jacket OD	0.200"	0.220"
Nominal Jacket Thickness	0.022"	0.022"
Jacket Minimum Spot Thickness	0.018"	0.18"
Installation Temperature 0°C to 60°C		
Operation Temperature -20°C to 60°C		



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Electrical Performance 5e

Frequency MHz	Attenuation (dB/100m) Max	Pair to Pair		Return Loss (dB) Min	ACR (dB) Min	Power Sum		
		NEXT (dB) Min	ELFEXT (dB/100m) Min			NEXT (dB) Min	ELFEXT (dB/100m) Min	ACR (dB) Min
.772	1.8	67	66	NA	65	64	63	62
1.0	2.0	65	64	20.0	63	62	61	60
4.0	4.0	56	52	23.0	52	53	49	49
8.0	5.8	52	46	24.5	46	48	43	43
10.0	6.5	50	44	25.0	44	47	41	41
16.0	8.2	47	40	25.0	39	44	37	36
20.0	9.2	46	38	25.0	37	42	35	34
25.0	10.4	44	36	24.3	34	41	33	31
31.25	11.7	43	34	23.6	31	40	31	28
62.5	17.0	38	28	21.5	21	35	25	18
100.0	22.0	35	24	20.1	13	32	21	10

(All tests include swept frequency measurements)

NEXT, and Power Sum values are derived from functions and truncated to the nearest whole dB

Characteristic Impedance	100 ohms \pm 15%
Capacitance	14 pf/ft nominal
DC Resistance/Unbalance	28.6 ohms/1000' Max/5% Max
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Nom. Velocity of Propagation	PE = 71%
Maximum Skew	5EN5 = 11ns @ 100 meters

