



## ANSI/TIA-568 D.2 Category 5E

ISO/IEC 11801 (Swept tested to 350 MHz)

ETL Type CMR, CSA C (ETL) CMR

Part Number: **N5ER CC L XX**

Base Color Length Put Up

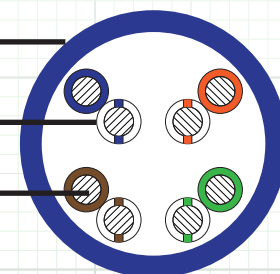
See Complete Part Number Legend & Example Below

### 4 Twisted Pair Cable

Outer Jacket — CMR, FR, PVC

Pair Insulation — Non-Plenum: PE

24 AWG Solid Copper



### 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

### Mechanical Specification:

### Riser

Nominal Jacket OD	0.195"
Nominal Jacket Thickness	0.020"
Jacket Minimum Spot Thickness	0.016"
Installation Temperature	0°C to 60°C
Operation Temperature	-20°C to 60°C

**Part # Legend:** (Example: Blue, 1000', Pull Box = **N5ERBL1BX**) \* Non-Stock, Requires Factory Minimum Run

N	5E	R	CC	L or LL	XX
Northern	Cbl. Type	Rating	Color Code	Length	Put Up

Rating Legend	
Riser	<b>R</b>

Color Legend	
White	<b>WH</b>
Blue	<b>BL</b>
Yellow	<b>YL</b>
Black	<b>BK</b>
Orange	<b>OR</b>
Red	<b>RD</b>
Green	<b>GN</b>
Gray	<b>GY</b>
Purple	<b>PR*</b>
Pink	<b>PK*</b>

Length Legend	
500'	<b>5</b>
1000'	<b>1</b>
1500'	<b>15*</b>
2000	<b>20*</b>
2500	<b>25*</b>

Put Up Legend	
Pull Box	<b>BX</b>
Reel	<b>RL*</b>
Coil Pack	<b>CP</b>

Note: Specification subject to change without notice

## ANSI/TIA-568 D.2 Category 5E (Swept frequencies to 350 MHz)



### Electrical Performance:

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	67.0	66.0	NA	65.2	64.0	63.0	62.0
1.0	2.0	65.3	63.8	20.0	63.3	62.3	60.8	60.3
4.0	4.0	56.3	51.7	23.0	52.2	53.3	48.7	49.2
8.0	5.8	51.8	45.7	24.5	46.0	48.8	42.7	44.0
10.0	6.5	50.3	43.8	25.0	43.8	47.3	40.8	40.8
16.0	8.2	47.3	39.9	25.0	39.0	44.3	36.7	36.0
20.0	9.2	45.8	37.7	25.0	36.5	42.8	34.7	33.5
25.0	10.4	44.3	35.8	24.3	33.9	41.3	32.8	30.9
31.25	11.7	42.9	33.9	23.6	31.2	39.9	30.9	28.2
62.5	17.0	38.4	27.8	21.5	21.4	35.4	24.8	18.4
100.0	22.0	35.3	23.8	20.1	13.3	32.3	20.8	10.3
155.0	28.1	29.5	19.9	18.8	1.4	29.5	16.9	1.4
200.0	32.4	27.8	17.7	18.0	NS	27.8	14.7	NS
300.0	41.0	25.2	14.2	16.8	NS	25.2	11.2	NS
350.0	44.9	24.2	12.9	16.3	NS	24.2	9.9	NS

(All tests include swept frequency measurements)

(Values above 200 MHz are for information purposes only)

Characteristic Impedance	100 Ohms + 15%
Capacitance	17 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 = 66%
Maximum Skew	35ns @ 100 meters

Note: Specification subject to change without notice

## Northern Category 5E Products: Jacks, Patch Panels, Patch Cords and Cable

Our Northern Family of Products are System Tested and meet ANSI/TIA-568 D.2 CAT 5E Component, Permanent link and Channel Requirements.  
Use these components when building your 5E solution:

Cable: N5ER**CC**1BX, N5EF**CC**1BX  
 Jacks: NJK5**CC**, NJK5EH**CC**  
 Patch Panels: NPP5E12PM, NPP5E24**P**, NPP5E48**P**  
 Patch Cords: NPC5**ELLCC**

## Other Northern Components Needed To Complete A System Solution:

Faceplates: NF**FPCC**, NF**FPCCID**  
 Surface Mount Boxes: NS**MBPCC**  
 Modular Patch Panels: NPPMOD12PM, NPPMOD24**P**, NPPMOD48**P**  
 Racks: NRR45U2**P**, NRR45U4**P**,  
 Fixed Wall Racks: NWMRR241918, NWMRR361918, WMRR481918  
 Swing-Out Wall Racks: NRRSWM1924, NRRSWM1936, NRRSWM1948  
 Hinged Wall Mount Bracket: NHWB1U6BK, NHWB2U6BK, NHWB3U6BK, NHWB4U6BK  
 Horizontal Cable Managers: NHC**MFS**1U, NHC**MFS**2U, NHC**MDS**1U, NHC**MDS**2U  
 Vertical Cable Managers: NV**WMXXXX** SEE CATALOG  
 Ladder Rack System: NLR1210 SEE CATALOG FOR OPTIONS

### Part # Color Legend: **CC** = Color

White	<b>WH</b>
Blue	<b>BL</b>
Black	<b>BK</b>
Ivory	<b>IV</b>
Light Almond	<b>LA</b>
Orange	<b>OR</b>
Red	<b>RD</b>
Yellow	<b>YL</b>

### Patch Cord Length Legend: **LL** = Available Length

Patch Cords are available in 1, 2, 3, 5, 7, 10, 15, 20, 25, 35, 50, 75, 100 foot lengths

### **P** = Port Count

Faceplate and Surface Mount Boxes available in 1, 2, 3, 4, 6 port

\* Other colors available subject to minimum orders