

## ANSI/TIA-568 Category 6E (550 MHz)

ISO/IEC 11801

ETL Type CMR, CSA C(ETL)CMR



Part Number: **N6ER XX X XX**  
Base Color Length Put Up

See Complete Part Number Legend & Example Below

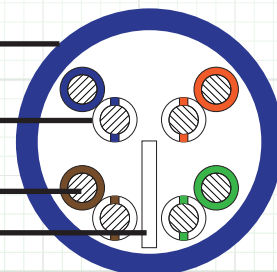
### 4 Twisted Pair Cable

Outer Jacket — FR-PVC

Pair Insulation — PE

23 AWG Solid Copper

Separator Tape



### 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	0.222"
Nominal Jacket Thickness	0.020"
Jacket Minimum Spot Thickness	0.018"
Installation Temperature	0°C to 60°C
Operation Temperature	-20°C to 60°C

**Part # Legend:** (Example: Blue, 1000', Pull Box = **N6ERBL1BX**) \* Non-Stock, Requires Factory Minimum Run

N	6E	R	XX	X or XX	XX
Northern	Cbl. Type	Rating	Color	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/EIA-568 Category 6E (550 MHz)



### Electrical Performance:

Frequency MHz	Attenuation (dB/100m)	Near End Cross Talk (dB)	ACR (dB/100m) Min	Power Sum (dB)			ELFEXT (dB/100m) Min	RL (dB) Min
				NEXT Min	ELFEXT Min	ACR Min		
1.0	2.0	74.3	72.3	72.3	64.8	70.3	67.8	20.0
4.0	3.8	65.3	61.5	63.3	52.8	59.5	55.8	23.0
8.0	5.3	60.8	55.4	58.8	46.7	53.4	49.7	24.5
10.0	6.0	59.3	53.3	57.3	44.8	51.3	47.8	25.0
16.0	7.6	56.2	48.7	54.2	40.7	46.7	43.7	25.0
20.0	8.5	54.8	46.3	52.8	38.8	44.3	41.8	25.0
25.0	9.5	53.3	43.8	51.3	36.8	41.8	39.8	24.3
31.25	10.7	51.9	41.2	49.9	34.9	39.2	37.9	23.6
62.5	15.4	47.4	32.0	45.4	28.9	30.0	31.9	21.5
100.0	19.8	44.3	24.5	42.3	24.8	22.5	27.8	20.1
155.0	25.2	41.4	16.2	39.4	21.0	14.2	24.0	18.8
200.0	29.0	39.8	10.7	37.8	18.8	8.7	21.8	18.0
250.0	32.8	38.3	5.4	36.3	16.8	3.4	19.8	17.3
350.0	39.7	37.1	-3.6	34.1	13.9	-5.6	16.9	NS
400	42.9	36.3	-7.6	33.3	12.7	-9.6	15.8	NS
550	51.4	36.2	---	34.2	10.9	---	14.0	NS

(All tests include swept frequency measurements)

(Values above 250 MHz are for information purposes only)

Capacitance	4.6 nF/100m nominal
DC Resistance/Unbalance	6.66 ohms/100m Max/ 2.5% Max
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Propagation Delay	4.59nSec/m Max @ 10MHz
Propagation Delay Skew	≤45ns/100m
Nominal Velocity of Propagation, NVP	PE 70%

Note: Specification subject to change without notice

## Northern Category 6 Products: Jacks, Patch Panels, Patch Cords and Cable

Our Northern Family of Products are System Tested and meet ANSI/TIA C.2 CAT 6 Component, Permanent link and Channel Requirements.  
Use these components when building your 6 solution:

Cable: N6ER**CC**1BX, N6P**CC**1BX, N6EP**CC**1BX  
 Jacks: NJK6**CC**, NJK6HD**CC**  
 Patch Panels: NPP612PM, NPP624P, NPP648P  
 Patch Cords: NPC6**LLCC**

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

Faceplates: NFPP**CC**, NFPP**CC**ID  
 Surface Mount Boxes: NSMB**PCC**  
 Modular Patch Panels: NPPMOD12PM, NPPMOD24P, NPPMOD48P  
 Racks: NRR45U2P, NRR45U4P,  
 Fixed Wall Racks: NWMRR241918, NWMRR361918, WMRR481918  
 Swing-Out Wall Racks: NRRSWM1924, NRRSWM1936, NRRSWM1948  
 Hinged Wall Mount Bracket: NHWB1U6BK, NHWB2U6BK, NHWB3U6BK, NHWB4U6BK  
 Horizontal Cable Managers: NHCMFS1U, NHCMFS2U, NHCMD51U, NHCMD52U  
 Vertical Cable Managers: NVWM**XXXX** 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