



ANSI/TIA-568 D.2 Category 5E ISO/IEC 11801 (Swept tested to 350 MHz) ETL Type CMP, C(ETL)CMP

4 Twisted Pair Cable

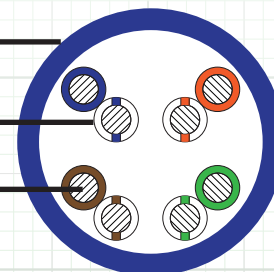
Part Number: **N5EP CC L XX**
Base Color Length Put Up

See Complete Part Number Legend & Example Below

Outer Jacket — Plenum: LS, PVC

Pair Insulation — 3XFEP, 1XPE

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:

Plenum

Nominal Jacket OD	0.175"
Nominal Jacket Thickness	0.016"
Jacket Minimum Spot Thickness	0.012"
Installation Temperature	0°C to 60°C
Operation Temperature	-20°C to 60°C

Part # Legend: (Example: Blue, 1000', Pull Box = **N5EPBL1BX**) * Non-Stock, Requires Factory Minimum Run

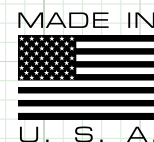
N	5E	P	CC	L or LL	XX
Northern	Cbl. Type	Rating	Color Code	Length	Put Up

Rating Legend	
Plenum	P

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

Length Legend	
500'	5
1000'	1
1500'	15*
2000	20*
2500	25*

Put Up Legend	
Pull Box	BX
Reel	RL*
Coil Pack	CP



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	4.1	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	43.0
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	32.5	19.9	18.8	4.4	29.5	16.9	1.4
200.0	32.4	30.8	17.7	18.0	NS	27.8	14.7	NS
300.0	41.00	32.3	17.2	16.8	NS	28.2	14.2	NS
350.0	44.9	30.2	15.9	16.3	NS	27.2	12.9	NS

(All tests include swept frequency measurements)

(Values above 200 MHz are for information purposes only)

Characteristic Impedance	100 ohms + 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	74%
Maximum Skew	15ns @ 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, N5EP**CC**1BX
 Jacks: NJK5E**CC**, NJK5EHD**CC**
 Patch Panels: NPP5E12PM, NPP5E24P, NPP5E48P
 Patch Cords: NPC5E**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	WH
Blue	BL
Black	BK
Ivory	IV
Light Almond	LA
Orange	OR
Red	RD
Yellow	YL

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