



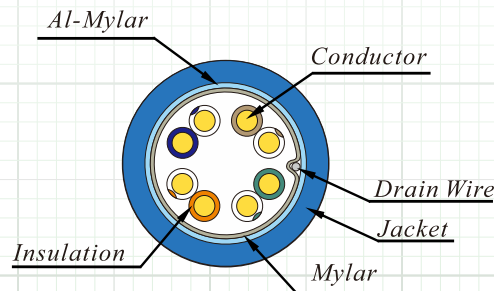
**ANSI/TIA-568 D.2 Category 5E**  
**ISO/IEC 11801 (Swept tested to 350 MHz)**  
**Overall Metal Foil Screen with Drain Wire**

**Part Number: N5EP SH CC 1 RL**

Base Shield Color Length Put Up

See Complete Part Number Legend & Example Below

### 4 Twisted Pair Cable



### Material and Construction

Conductor	Material	24AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color Code & Diameter	Blue & White/Blue Stripe	1.01 ± 0.02 mm
		Orange & White/Orange Stripe	0.99 ± 0.02 mm
		Green & White/Green Stripe	1.01 ± 0.02 mm
		Brown & White/Brown Stripe	0.99 ± 0.02 mm
Twisted	Description	Left Hand Direction	
Assembly	Description	Left Hand Direction	
Shield	Material	Mylar Tape	
Drain wire	Material	24AWG Solid Tinned Copper	
Shield	Material	Al Mylar tape	
	Description	100 % Coverage and Mylar Side Facing Out	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSRFPVC)	
	Diameter	5.8 ± 0.2 mm	
	Thickness	0.43 ± 0.03 mm	
	Color	Per Customer'S Request	

**Part # Legend:** (Example: Black, 1000', Reel = **N5EP SHBK1RL**) \* Non-Stock, Requires Factory Minimum Run

<b>N</b>	<b>5E</b>	<b>P</b>	<b>SH</b>	<b>CC</b>	<b>1</b>	<b>RL</b>
Northern	Cbl. Type	Rating	AL MY Shield	Color Code	Length	Put Up

<b>Rating Legend</b>	
PLENUM	<b>P</b>

<b>Color Legend</b>	
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>

<b>Length Legend</b>	
1000'	<b>1</b>

<b>Put Up Legend</b>	
Reel	<b>RL</b>

Note: Specification subject to change without notice

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



### Overall Metal Foil Screen with Drain Wire

#### Electrical Performance:

Frequency (MHz)	IL	NEXT	PS NEXT	ACR	PS ACR	ACRF	PS ACRF	RL	Propagation Delay	Delay Skew
	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	68.30	65.30	66.26	63.26	66.80	63.80	20.00	570.00	45.00
4	4.05	59.27	56.27	55.22	52.22	54.76	51.76	23.01	552.00	45.00
8	5.77	54.75	51.75	48.99	45.99	48.74	45.74	24.52	546.73	45.00
10	6.47	53.30	50.30	46.83	43.83	46.80	43.80	25.00	545.38	45.00
16	8.25	50.24	47.24	41.99	38.99	42.72	39.72	25.00	543.00	45.00
20	9.27	48.78	45.78	39.52	36.52	40.78	37.78	25.00	542.05	45.00
25	10.42	47.33	44.33	36.91	33.91	38.84	35.84	24.32	541.20	45.00
31.25	11.72	45.88	42.88	34.15	31.15	36.90	33.90	23.64	540.44	45.00
62.5	16.99	41.36	38.36	24.37	21.37	30.88	27.88	21.54	538.55	45.00
100	21.98	38.30	35.30	16.33	13.33	26.80	23.80	20.11	537.60	45.00
150	27.54	35.66	32.66	8.11	5.11	23.28	20.28	18.87	536.94	45.00
200	32.42	33.78	30.78	N.A.	N.A.	20.78	17.78	18.00	536.55	45.00
250	36.85	32.33	29.33	N.A.	N.A.	18.84	15.84	17.32	536.28	45.00
300	40.97	31.14	28.14	N.A.	N.A.	17.26	14.26	16.77	536.08	45.00
350	44.85	30.14	27.14	N.A.	N.A.	15.92	12.92	16.30	535.92	45.00

(All tests include swept frequency measurements) (Values above 200 MHz are for information purposes only)

#### Physical & Electrical Characteristics (at 20°C):

Temperature & voltage rating	75°C / 300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ·m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m
Jacket	Material

#### Usage & Environmental Condition:

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum Bending Radius	≥ 4 times of overall diameter	
Maximum Pulling Tension	≤ 110 N	

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