



ANSI/TIA-568 D.2 Category 6
ISO/IEC 11801 (Swept tested to 550 MHz)
ETL Type CMR, CSA C(ETL)CMR

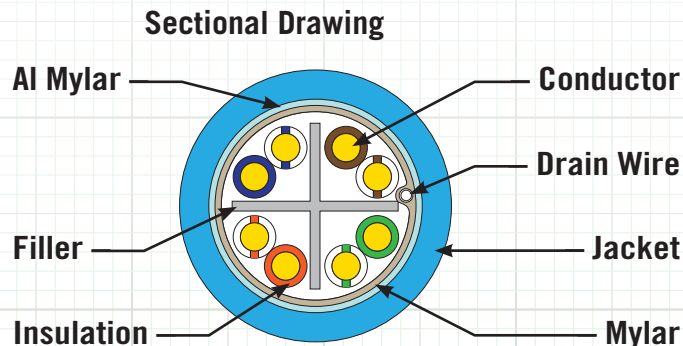
Part Number: N6ER SH CC 1 RL

Base Shield Color Length Put Up

See Complete Part Number Legend & Example Below

Product Description:

F/UTP, 23AWG solid bare copper, CAT.6, CMR
 With cross filler
 Overall metal foil screen with drain wire



Applicable Standard:

Electrical Transmission	ANSI/TIA-568-C.2 (2009) ISO/IEC 11801 (Edition 2.2) IEC 61156-5 (Edition 2.1)
Flame Test	UL 1666 (CMR)
Material and Construction	UL 444 CSA 22.2 NO.214
EU Directive	2011/65/EU (RoHS2)

Usage & Environmental Condition:

Electrical Transmission	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Material and Construction		≤ 4 times of overall diameter
EU Directive		≤ 110 N

Part # Legend: (Example: Blue, 1000', Reel = **N6ERSHBL1RL**) * Non-Stock, Requires Factory Minimum Run

N	6E	R	SH	CC	1	RL
Northern	Cbl. Type	Rating	Shield	Color Code	Length	Put Up

Rating Legend	
Riser	R

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

Length Legend	
1000'	1

Put Up Legend	
Reel	RL

Note: Specification subject to change without notice

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Material and Construction:

Conductor	Material	23AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	1.08 ± 0.02 mm
		Orange & white/orange stripe	1.05 ± 0.02 mm
		Green & white/green stripe	1.08 ± 0.02 mm
Brown & white/brown stripe		1.05 ± 0.02 mm	
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
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	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	7.20 ± 0.2 mm	
	Thickness	0.45 ± 0.05 mm	
	Color	Per customer's request	

Physical & Electrical Characteristics (at 20°C):

Temperature rating	75°C
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 /100m
Resistance unbalance	5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	5000 MΩ •km
Mutual capacitance	5.6 nF/100m
Capacitance unbalance pair-to-ground	330 pF/100m
Nominal Velocity of Propagation, NVP	68%

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Transmission Performance (at 20°C):

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	2.03	77.30	75.30	75.28	73.28	70.80	67.80	20.00	570.00	45.00
4	3.78	68.27	66.27	64.49	62.49	58.76	55.76	23.01	552.00	
8	5.32	63.75	61.75	58.43	56.43	52.74	49.74	24.52	546.73	
10	5.95	62.30	60.30	56.35	54.35	50.80	47.80	25.00	545.38	
16	7.55	59.24	57.24	51.68	49.68	46.72	43.72	25.00	543.00	
20	8.47	57.78	55.78	49.31	47.31	44.78	41.78	25.00	542.05	
25	9.51	56.33	54.33	46.83	44.83	42.84	39.84	24.32	541.20	
31.25	10.67	54.88	52.88	44.20	42.20	40.90	37.90	23.64	540.44	
62.5	15.38	50.36	48.36	34.98	32.98	34.88	31.88	21.54	538.55	
100	19.80	47.30	45.30	27.50	25.50	30.80	27.80	20.11	537.60	
150	24.71	44.66	42.66	19.95	17.95	27.28	24.28	18.87	536.94	
200	28.98	42.78	40.78	13.80	11.80	24.78	21.78	18.00	536.55	
250	32.85	41.33	39.33	8.48	6.48	22.84	19.84	17.32	536.28	
300	36.43	40.14	38.14	3.72	1.72	21.26	18.26	16.77	536.08	
350	39.79	39.14	37.14	N.A.	N.A.	19.92	16.92	16.30	535.92	
400	42.97	38.27	36.27	N.A.	N.A.	18.76	15.76	15.89	535.80	
450	46.01	37.50	35.50	N.A.	N.A.	17.74	14.74	15.53	535.70	
500	48.94	36.82	34.82	N.A.	N.A.	16.82	13.82	15.21	535.61	
550	51.76	36.19	34.19	N.A.	N.A.	15.99	12.99	14.92	535.54	

(Values above 250 MHz are for information purposes only)

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