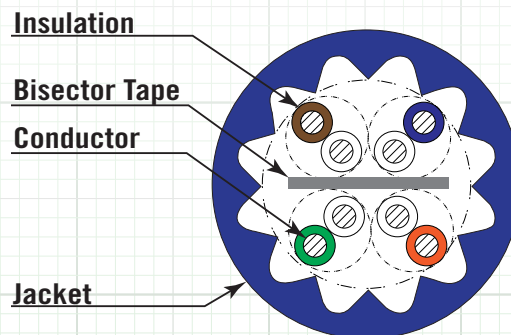


ANSI/TIA-568 D.2 Category 6A ISO/IEC 11801 (Swept tested to 500 MHz) ETL Type CMR, CSA C(TL)CMR

Part Number: N6AR CC 1 RL
Base Color Length Put Up

See Complete Part Number Legend & Example Below

Cross Section Drawing



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

Environmental Specification:

Riser

Environmental Space	Non-plenum
Flame Test Method	CMR
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

Part # Legend: (Example: Blue, 1000', Reel = **NGARBL1RL**) * Non-Stock, Requires Factory Minimum Run

N	6A	R	CC	1	RL
Northern	Cbl. Type	Rating	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

ANSI/TIA-568 D.2 Category 6A (Swept frequencies to 500 MHz)

**Construction Materials:**

Jacket Material	FRPVC
Conductor Material	Bare copper
Insulation Material	Polyolefin
Separator Material	Polyolefin

Dimensions:

Cable Length	305 m 1000 ft
Cable Weight	40.60 lb/kft
Diameter Over Jacket	8.001 mm 0.315 in
Jacket Thickness	1.473 mm 0.058 in

Electrical Specifications:

ANSI/TIA Category	6A
dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	7.61 ohms/100 m
Mutual Capacitance	6.0 nF/100 m @ 1 kHz Nominal Velocity of Propagation (NVP) 65 %
Operating Frequency, maximum	500 MHz Transmission Standards ANSI/TIA-568-C.2
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac 2500 Vdc

Mechanical Specifications:

Pulling Tension, maximum	11 kg 25 lb
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ANSI/TIA-568 D.2 Category 6A (Swept frequencies to 500 MHz)



Electrical Performance:

Frequency MHz	IL Std	NEXT Std	ACR Std	PSNEXT Std	PSACR Std	ACRF Std	PSACRF Std	RL Std	TCL Std	ELTCTL Std
1	2.1	74.3	72.2	72.3	70.2	67.8	64.8	20.0	40.0	35.0
4	3.8	65.3	61.5	63.3	59.5	55.8	52.8	23.0	40.0	23.0
8	5.3	60.8	55.4	58.8	53.4	49.7	46.7	24.5	40.0	16.9
10	5.9	59.3	53.4	57.3	51.4	47.8	44.8	25.0	40.0	15.0
16	7.5	56.2	48.8	54.2	46.8	43.7	40.7	25.0	38.0	10.9
20	8.4	54.8	46.4	52.8	44.4	41.8	38.8	25.0	37.0	9.0
25	9.4	53.3	44.0	51.3	42.0	39.8	36.8	24.3	36.0	7.0
31.25	10.5	51.9	41.4	49.9	39.4	37.9	34.9	23.6	35.1	
62.5	15.0	47.4	32.4	45.4	30.4	31.9	28.9	21.5	32.0	
100	19.1	44.3	25.2	42.3	23.2	27.8	24.8	20.1	30.0	
155	24.1	41.4	17.4	39.4	15.4	24.0	21.0	18.8	28.1	
200	27.6	39.8	12.2	37.8	10.2	21.8	18.8	18.0	27.0	
250	31.1	38.3	7.3	36.3	5.3	19.8	16.8	17.3	26.0	
300	34.3	37.1	2.9	35.1	0.9	18.3	15.3	16.8	25.2	
350	37.2	36.1	-1.1	34.1	-3.1	16.9	13.9	16.3	24.6	
400	40.1	35.3	-4.8	33.3	-6.8	15.8	12.8	15.9	24.0	
500	45.3	33.8	-11.4	31.8	-13.4	13.8	10.8	15.2	23.0	

(All tests include swept frequency measurements)

Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
IL	Insertion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio – Far End (dB/100m)
RL	Return Loss (dB)
TCL	Transverse Conversion Loss (dB/100m)
ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Note: Specification subject to change without notice