

This specification describes a 24 AWG, 100-ohm, Ethernet cable with a budget length of 240ft (73m) to meet CAT 5e.

CONDUCTOR

Material: Silver-coated Copper Alloy
 Size: AWG 24
 Construction: 19 x 36
 OD(nom): .0235"
 Conductor Resistance(nom): 26.8 ohms/1,000 ft

INSULATION

Material #1: Extruded Expanded PTFE
 Material #2: Spiral-wrapped and fused PTFE Tape
 OD(nom): .045"

CABLE

Four (4) of the above insulated conductors are cabled together around one (1) PTFE filler.

BINDER TAPE

Material: PTFE Tape

SHIELD #1

Material: Tin-coated Copper Flat Braid
 Coverage(min): 90%

SHIELD #2

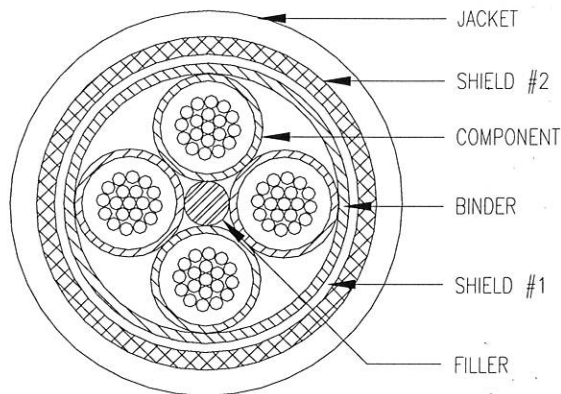
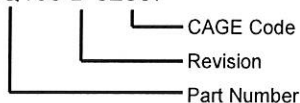
Material: Tin-coated Copper Round Braid
 Coverage(min): 85%

JACKET

Material: Extruded FEP
 OD: .160" ± .010"

IDENTIFICATION

Material: Polyimide Marker Tape
 Legend: Tensolite NF24Q100 D 92607



COLOR

Pair #1: Red-Red/Black
 Pair #2: Blue-Blue/Black
 Jacket: Translucent Yellow

CABLE CHARACTERISTICS

Differential Impedance: 100 ± 10 ohms
 Capacitance (nom): 13 pF/ft
 Velocity of Propagation (nom): 80%
 Weight (nom): 24.5 lbs/1,000 ft
 Weight(max): 27.0 lbs/1,000 ft

Frequency (MHz)	Attenuation (dB/100m)		Near End Cross Talk (dB)	Return Loss (dB)
	nom	max	min	min
1	2.1	2.7	65.3	20.0
4	4.4	5.6	56.3	23.0
8	6.3	7.9	51.8	24.5
10	7.3	8.9	50.3	25.0
16	9.3	11.2	47.3	25.0
20	10.5	12.7	45.8	25.0
25	11.8	14.2	44.3	24.2
31.25	13.3	16.0	42.9	23.3
62.5	19.3	23.3	36.4	20.7
100	26.0	30.1	35.3	19.0

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D	3/3/04	Changed color code back to Red-Red/Black; Blue-Blue/Black.
C	11/3/03	Changed color code to Red-Blue; Green-Yellow.
B	1/27/03	Added identification.

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Drawn by: Chris Lowe *MCL* Date: 3/3/04

Approved By: Sherry Condrey *SC* Date: 3/3/04

Description: 100-Ohm Ethernet Cable

Part Number: NF24Q100 Cage Code: 92607