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%

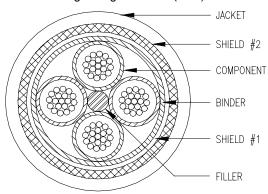
JACKET

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

IDENTIFICATION

Material: Polyimide Marker Tape Legend: Tensolite NF24Q100 D 92607

CAGE Code
Revision
Part Number



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.	
С	11/3/03	Changed color code to Red-Blue; Green-Yellow.	
В	1/27/03	Added identification.	

TENSOLITE COMPANY
SUBSIDIARY OF CARLISLE CORPORATION
ST. AUGUSTINE, FL

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ľ	Drawn by:	Date	_
ı	Chris Lowe	3/3/04	
ľ	Approved By:	Date	
ı	Sherry Condrey	3/3/04	

Description:

100-Ohm Ethernet Cable

Part Number:	Cage Code
NF24Q100	92607