

This specification describes a 22 AWG, 100-ohm, Ethernet cable with a budget length of 300ft (91m) to meet CAT 5e.

CONDUCTOR

Material: Silver-coated Copper
 Size: AWG 22
 Construction: 19 x 34
 OD(nom): .0295"
 Conductor Resistance(nom): 16.0 ohms/1,000ft

INSULATION

Material #1: Extruded Expanded PTFE
 Material #2: Spiral-wrapped and fused PTFE Tape
 OD(nom): .055"

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

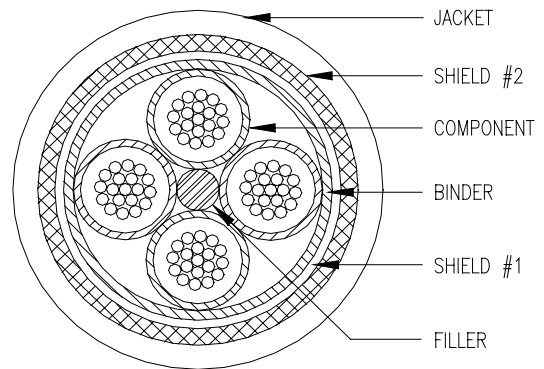
Material: Tin-coated Copper Round Braid
 Coverage(min): 85%

JACKET

Material: Extruded FEP
 OD: .190" ± .012"

IDENTIFICATION

Material: Polyimide Marker Tape
 Legend: Tensolite NF22Q100 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): 34.5 lbs/1,000ft
 Weight(max): 38.2 lbs/1,000ft

Frequency (MHz)	Attenuation (dB/100m)		Near End Cross Talk (dB)	Return Loss (dB)
	nom	max	min	min
1	1.6	2.2	65.3	20.0
4	3.5	4.5	56.3	23.0
8	5.1	6.4	51.8	24.5
10	5.8	7.1	50.3	25.0
16	7.6	9.0	47.3	25.0
20	8.7	10.2	45.8	25.0
25	9.8	11.4	44.3	24.2
31.25	11.1	12.9	42.9	23.3
62.5	15.9	18.7	36.4	20.7
100	21.0	24.2	35.3	19.0

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TENSOLITE COMPANY

SUBSIDIARY OF CARLISLE CORPORATION

ST. AUGUSTINE, FL

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

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

Description:

100-Ohm Ethernet Cable

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.

Part Number: NF22Q100
 Cage Code: 92607