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General Description:

28 AWG stranded (7x36) bare copper conductors, non-plenum, patented step polyolefin insulation, twisted pairs, overall Beldfoil® shielded + TC braid shield (65% coverage), TC drain wire, PVC jacket (see RISC color code chart below).

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
6	3	28	7x36	BC - Bare Copper

Total Number of Conductors:

6

Insulation

Insulation Material:

Layer #	Insulation Material	Wall Thickness (in.)
1	Solid PP - Solid Polypropylene	0.010
2	Solid PE - Solid Polyethylene	0.005

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.020

Overall Cable

Overall Nominal Diameter:

0.230 in.

Pair

Pair Color Code Chart:

Number	Color
1	White over Blue & Blue over White
2	White over Orange & Orange over White
3	White over Green & Green over White

Mechanical Characteristics (Overall)

Bulk Cable Weight: 22 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

1538A Multi-Conductor - IBM RISC System/6000

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: RJ-45 compatible

Customer Part Number Reference Specification: IBM P/N: N Cable

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
120

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
21.5

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
63

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.5

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/1000 ft.)
1	8
4	17
10	26
16	32

Max. Operating Voltage - UL:

Voltage
150 V RMS

Max. Recommended Current:

Current
0.9 Amps per conductor @ 25°C

Electrical Characteristics-Premise (Overall)

Premise

Minimum NEXT:

Freq. (MHz)	NEXT (dB)
1	60
4	50
10	45
16	40

Notes (Overall)

Notes: US Patent # 5, 220, 130. Single conductors are dually insulated. The outer layer of insulation must be stripped off before attaching modular connectors.

Notes (Cont'd.): Use a stripping tool such as Cooper Tools Xcelite Model 103-S or equivalent with a mechanical stop to avoid nicking the inner insulation.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1538A 008U1000	1,000 FT	24.000 LB	GRAY		3 PR #28 PP/PE SH FR PVC
1538A 008I000	1,000 FT	25.000 LB	GRAY	C	3 PR #28 PP/PE SH FR PVC

Notes:

C = CRATE REEL PUT-UP.

1538A Multi-Conductor - IBM RISC System/6000

Revision Number: 2 Revision Date: 11-13-2012

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