



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

Insulation

Insulation Material:

Layer #	Insulation Material
1	Solid PP - Solid Polypropylene
2	Solid PE - Solid Polyethylene

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
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.225 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)

Non-UL Temperature Rating: -30°C To +75°C

Bulk Cable Weight: 24 lbs/1000 ft.

Min. Bend Radius (Install)/Minor Axis: 2.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2

1538A Multi-Conductor - IBM RISC System/6000

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
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
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Plenum/Non-Plenum

Plenum (Y/N):	No
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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

1538A Multi-Conductor - IBM RISC System/6000

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 0081000	1,000 FT	25.000 LB	GRAY	C	3 PR #28 PP/PE SH FR PVC

Notes:
C = CRATE REEL PUT-UP.

IBM RISC System/6000

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs/ Cond.	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
28 AWG Stranded (7x36) Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shielded + TC Braid Shield (65% Coverage) • TC Drain Wire																
Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)																
IBM Part No. N Cable	1538A	NEC: CL2	3	U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4	.225	5.72	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 5.5Ω/M' 18.0Ω/km	120	12.0	39.4	21.5	70.5
RJ-45 compatible																
IBM Part No. XX, YY Cable	1540A	NEC: CL2	7/c	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.190	4.83	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 7.2Ω/M' 23.6Ω/km	—	12.5	41.0	23.0	75.5
RJ-45 compatible																

DC = DC Resistance • TC = Tinned Copper

* Capacitance between conductors

**Capacitance between one conductor and other conductors connected to shield

Color Codes: IBM RISC System/6000

Cond.	Color	Pair No.	Color Combination
1st	White over Blue	1	White over Blue & Blue over White
2nd	White over Orange	2	White over Orange & Orange over White
3rd	White over Green	3	White over Green & Green over White
4th	White over Brown		
5th	White over Gray		
6th	White over Red		
7th	White over Yellow		