



Product: [1538A](#) 

RISC 6000, #28-3pr, BC, PO, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

Product Description

RISC 6000 IBM N Cable, 28 AWG stranded (7x36) bare copper conductors, patented step polyolefin insulation, twisted pairs, overall Beldfoil® shielded + tinned copper braid shield (65% coverage), tinned copper drain wire, PVC jacket (see RISC color code chart below).

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
28	7x36	BC - Bare Copper	3

Conductor Count:	6
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Insulation

Layer	Material	Nominal Wall Thickness
1	PP - Polypropylene	0.01 in
2	PE - Polyethylene	0.005 in

Color Chart

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

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	28	7x36
Braid	2	Tinned Copper (TC)		65%			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.23 in	0.02 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
63 Ohm/1000ft	5.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12 pF/ft	21.5 pF/ft

Impedance

Nominal Characteristic Impedance
120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	17 dB/100m
4 MHz	26 dB/100m
10 MHz	32 dB/100m

High Freq

Frequency [MHz]	Min. NEXT [dB]
1 MHz	60 dB
4 MHz	50 dB
10 MHz	45 dB
16 MHz	40 dB

Current

Max. Recommended Current [A]
0.9 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
150 V RMS

Mechanical Characteristics

Bulk Cable Weight:	22 lbs/1000ft
Min. Bend Radius/Minor Axis:	2.5 in

Standards

Customer Reference Document:	IBM Part No. N Cable
NEC/(UL) Compliance:	CL2
Other Specification:	RJ-45 compatible

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	150 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC
1538A 0081000	Gray	612825117612
1538A 008U1000	Gray	612825117605

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

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

Update and Revision:	Revision Number: 0.333 Revision Date: 09-08-2021
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