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1-800-Belden1



General Description:

IBM type 2A, 22 AWG solid bare copper conductors, non-plenum, flame-retardant foam polyethylene insulation, each pair individually Beldfoil® shielded + overall TC braid shield (65% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
12	6	22	Solid	BC - Bare Copper

Total Number of Conductors: 12

Insulation

Insulation Material:

Insulation Material
FRFPE - Flame Retardant Foam Polyethylene
FRPE - Flame Retardant Polyethylene

Insulation Resistance: DGM: >16000M Ohms, VGM: >2000M Ohms

Inner Shield

Inner Shield Material:

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

Outer Shield

Outer Shield Material:

Type	Outer Shield Material
Tape	Polyester Tape

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.324 x 0.466 in.

Pair

Pair Color Code Chart:

Number	Color
1	Green/White Stripe & White/Green Stripe
2	Blue/White Stripe & White/Blue Stripe
3	Brown/White Stripe & White/Brown Stripe
4	Orange/White Stripe & White/Orange Stripe
1	Black & Orange
2	Red & Green

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 93.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 146 lbs.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
Other Specification:	Verified IBM Type 2A
Customer Part Number Reference Specification:	IBM P/N: 4716739, 33G2773

Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	82689

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Description	Impedance (Ohm)
DGM (3-20M)	150
VGM (1k)	600
VGM (265k)	105

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/ft)
DGM	1			8.5

Maximum Capacitance Unbalance:

Description	Capacitance (pF/ft)
VGM	2.625
DGM	1.000

Nominal Velocity of Propagation:

Description	VP (%)
VGM	66
DGM	78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.7

Max. Attenuation:

Description	Freq. (MHz)	Attenuation (dB/100 m)
VGM	.1	.128
DGM	4	2.2
DGM	16	4.4
DGM	31.25	6.9
DGM	62.5	9.8
DGM	100	12.3
DGM	200	17.4
DGM	300	21.4

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current

2.3 Amps per conductor @ 25°C

Common Mode Attenuation:

Description	Freq. (MHz)	Attenuation (dB/100 m)
DGM	62.5	10.6
DGM	100	13.4
DGM	200	19.0
DGM	300	23.3
DGM	550	31.5
DGM	600	32.9

Electrical Characteristics-Premise (Overall)

Premise

Minimum NEXT:

Freq. (MHz)	NEXT (dB)
4	58.0
16	50.4
31.25	46.1
62.5	41.5
100	38.5
200	34.0
300	31.3

Notes (Overall)

Notes: IBM qualified Type 2A media cable for use in IBM cabling systems.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9689 0101000	1,000 FT	80.000 LB	BLACK	C Z	2PR#22 SHLD 4PR#22PE PVC

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 01-18-2013

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