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please call

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.

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