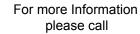
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9689 Multi-Conductor - Type 2A



1-800-Belden1



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

Insulation

Insulation Material:

Insulation Ma	aterial
FRFPE - Flam	ne 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®	Таре	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



Detailed Specifications & Technical Data





9689 Multi-Conductor - Type 2A

	NEC/(UL) Specification:	CMG
	CEC/C(UL) Specification:	CMG
	Other Specification:	ETL Verified
	Customer Part Number Reference Specification:	IBM P/N: 4716739, 33G2773
Fla	ime Test	
	UL Flame Test:	UL1685 FT4 Loading
	CSA Flame Test:	FT4
Ple	enum/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



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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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9689 0101000	1,000 FT	80.000 LB	BLACK	CZ	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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