

9689 Paired - Type 2A

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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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:

CONDUCTOR:

Number of Pairs	6
Number of Conductors	12
Total Number of Conductors	12
AWG	22
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FRFPE - Flame Retardant Foam Polyethylene, FRPE - Flame Retardant Polyethylene
Insulation Resistance	DGM: >16000M Ohms, VGM: >2000M Ohms

Pair Color Code Chart :

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

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil®
Inner Shield Type	Tape/Braid

Inner Shield Material :

Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			
2		Braid	TC - Tinned Copper	65			

Inner Shield % Coverage	100 %
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OUTER SHIELD:

Outer Shield Type	Tape
Outer Shield Material	Polyester Tape

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.324 x .466 in.
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MECHANICAL CHARACTERISTICS:

Non-UL Temperature Rating	-30°C To +75°C
Bulk Cable Weight	93.5 lbs/1000 ft.
Max. Recommended Pulling Tension	146 lbs.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG
CEC/C(UL) Specification	CMG
Other Specification	ETL Verified
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)	N
Plenum Number	82689

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
DGM (3-20M)	150
VGM (1k)	600
VGM (265k)	105

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/ft)
DGM	1			8.5

Maximum Capacitance Unbalance :

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Description	Maximum Capacitance Unbalance (%)
VGM	2.625
DGM	1.000

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
VGM	66
DGM	78

Nom. Conductor DC Resistance @ 20 Deg. C 16.7 Ohms/1000 ft

Minimum NEXT :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum 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

Max. Attenuation (dB/100 m) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. 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

Common Mode Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Common Mode 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

Max. Operating Voltage - UL 300 V RMS

Max. Recommended Current 2.3 Amps per conductor @ 25°C

NOTES:

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

PUT-UPS AND COLORS:

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9689 0101000	2PR#22 SHLD 4PR#22PE PVC	1000	80	BLACK	C Z
9689 0103600	2PR#22 SHLD 4PR#22PE PVC	3600	298.8	BLACK	C Z
9689 010500	2PR#22 SHLD 4PR#22PE PVC	500	43	BLACK	C Z

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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