

9688 Paired - Type 1A

		<p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p>
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Description:

IBM Type 1A, 22 AWG solid BC conductors, non-plenum, flame-retardant foam polyethylene insulation, each pair individually Beldfoil® shield (65% coverage), rip cord, PVC jacket.

SUITABLE APPLICATIONS:

Suitable Applications	Token Ring 4 & 16 Mbps, FDDI over Copper, and video
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4
AWG	22
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FRFPE - Flame Retardant Foam Polyethylene
Insulation Resistance	> 16000 Megaohms

Pair Color Code Chart :

Number	Color	Number	Color
1	Black & Orange	2	Red & Green

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil®
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape
Inner Shield % Coverage	100 %

OUTER SHIELD:

Outer Shield Type	Braid
Outer Shield Material	TC - Tinned Copper
Outer Shield % Coverage	65 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.296 x .431 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
Bulk Cable Weight	48 lbs/1000 ft.
Max. Recommended Pulling Tension	83 lbs.
Min. Bend Radius (Install)	4.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	MPG, CMG
CEC/C(UL) Specification	CMG
IEEE Specification	IEEE802.5 Token Ring
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification	TIA/EIA-568-A
Other Specification	ETL Verified
Customer Part Number Reference Specification	IBM P/N: 4716748, 33G2772

FLAME TEST:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	82688

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	150 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	8.5 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	100 pF/100 m
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	16.7 Ohms/1000 ft
Minimum NEXT :	

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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)
	4			2.2
	16			4.4
	31.25			6.9
	62.5			9.8
	100			12.3
	200			17.4
	300			21.4

Common Mode Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Common Mode Attenuation (dB/100 m)
	62.5			10.6
	100			13.4
	200			19.0
	300			23.3
	400			26.9
	550			31.5
	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 1A media cable for use in IBM cabling system. For non-suffix "A" type IBM product, see 1634A

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9688 0101000	2PR#22FRFPE FRPE BRD PVC	1000	50	BLACK	C Z
9688 0102000	2PR#22FRFPE FRPE BRD PVC	2000	102	BLACK	C Z
9688 0103600	2PR#22FRFPE FRPE BRD PVC	3600	190.8	BLACK	C Z
9688 010500	2PR#22FRFPE FRPE BRD PVC	500	26.5	BLACK	C Z

C = CRATE REEL PUT-UP.

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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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