

## 82688 Paired - IBM Type 1A

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

IBM Type 1A, 22 AWG solid BC conductors, plenum, foam FEP Teflon® insulation, each pair individually Beldfoil® shielded + overall TC braid shield (65% coverage), rip cord, Flamarrest® 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	FFEP - Foam Fluorinated Ethylene Propylene
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 Trade Name	Flamarrest®
Outer Jacket Material	LS PVC - Low Smoke Polyvinyl Chloride

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Outer Jacket Ripcord	Yes
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### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.248 x .348 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	0°C To +75°C
Bulk Cable Weight	65 lbs/1000 ft.
Max. Recommended Pulling Tension	83 lbs.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP
IEEE Specification	IEEE802.3 Token Ring
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
TIA/EIA Specification	TIA/EIA568-A
Other Specification	ETL Verified
Customer Part Number Reference Specification	IBM P/N: 4716749, 33G8220

### FLAME TEST:

UL Flame Test	NFPA 262
CSA Flame Test	FT6

### PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
Non-Plenum Number	9688

### 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 systems.

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
82688 0101000	2 PR #22 FFEP SH FRPVC	1000	47	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.

Revision Number: 1 Revision Date: 05-30-2006

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