

82688 Paired - IBM Type 1A

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|   | <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 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 |
|-----------------------|--|

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 |
|----------------------|-----|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|-----------------|
| Overall Nominal Diameter | .248 x .348 in. |
|--------------------------|-----------------|

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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