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General 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.

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2 | 22 | Solid | BC - Bare Copper |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Material |
|-------------------------------------------|
| FRFPE - Flame Retardant Foam Polyethylene |

Insulation Resistance: > 16000 Megaohms

Inner Shield

Inner Shield Material:

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

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 7.518 x 10.947 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Bulk Cable Weight: 71.434 Kg/Km

Max. Recommended Pulling Tension: 369.201 N

Min. Bend Radius/Minor Axis: 114.300 mm

Min. Bend/Installation: 114.300 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG, MPG

CEC/C(UL) Specification: CMG

| | |
|-----------------------------------------------|---------------------------|
| EU Directive 2011/65/EU (ROHS II): | Yes |
| IEEE Specification: | IEEE802.5 Token Ring |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| Other Specification: | Verified IBM Type 1A |
| 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): | No |
| Plenum Number: | 82688 |

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 150 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 27.8885 |

Maximum Capacitance Unbalance (pF/100 m): 100

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 78 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 54.7927 |

Max. Attenuation:

| Freq. (MHz) | 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 |

Max. Operating Voltage - UL:

| |
|-----------|
| Voltage |
| 300 V RMS |

Max. Recommended Current:

| |
|-------------------------------|
| Current |
| 2.3 Amps per conductor @ 25°C |

Common Mode Attenuation:

| Freq. (MHz) | 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 |

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 1A media cable for use in IBM cabling system. For non-suffix "A" type IBM product, see 1634A

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|-------|-------|--------------------------|
| 9688 0101000 | 1,000 FT | 50.000 LB | BLACK | C Z | 2PR#22FRFPE FRPE BRD PVC |
| 9688 0102000 | 2,000 FT | 100.000 LB | BLACK | C Z | 2PR#22FRFPE FRPE BRD PVC |
| 9688 0103600 | 3,600 FT | 190.800 LB | BLACK | C Z | 2PR#22FRFPE FRPE BRD PVC |
| 9688 010500 | 500 FT | 26.500 LB | BLACK | C Z | 2PR#22FRFPE FRPE BRD 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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