



Description:

IBM type 2A, 22 AWG solid bare copper conductors, plenum, foam FEP Teflon® insulation, each pair individually Beldfoil® shielded + overall TC braid shield (65% coverage), Flamarrest® 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 | FFEP - Foam Fluorinated Ethylene Propylene, FEP - Fluorinated Ethylene Propylene |
|-----------------------|--|
| Insulation Resistance | DGM: >16000MOhms, VGM: >2000MOhms |

Pair Color Code Chart :

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

INNER SHIELD:

| Inner Shield Mate | erial Trade Name | | Beldfoil® | | | | |
|---------------------------------|-------------------------|-------|----------------------------------|-------------------|-----------|----------------|-----------------------|
| Inner Shield Type | e | | Tape/Braid | | | | |
| Inner Shield Mate | Inner Shield Material : | | | | | | |
| Layer Number/Descri ption | Material Trade Name | Туре | Material | % Coverage (%) | Stranding | Diameter (in.) | Conductor Material |
| 1 | Beldfoil® | Таре | Aluminum Foil- Polyester Tape | 100 | | | |
| 2 | | Braid | TC - Tinned Copper | 65 | | | |



| OUTER SHIELD: | | | | |
|--|---------------------------------------|--|--|--|
| Outer Shield Type | Таре | | | |
| Outer Shield Material | Polyester Tape | | | |
| OUTER JACKET: | | | | |
| Outer Jacket Material Trade Name | Flamarrest® | | | |
| Outer Jacket Material | LS PVC - Low Smoke Polyvinyl Chloride | | | |
| Outer Jacket Ripcord | Yes | | | |
| OVERALL NOMINAL DIAMETER: | | | | |
| Overall Nominal Diameter | .324 x .460 in. | | | |
| MECHANICAL CHARACTERISTICS: | | | | |
| Non-UL Temperature Rating | 0°C To +75°C | | | |
| Bulk Cable Weight | 79.4 lbs/1000 ft. | | | |
| Max. Recommended Pulling Tension | 146 lbs. | | | |
| APPLICABLE SPECIFICATIONS AND AGENO | CY COMPLIANCE: | | | |
| APPLICABLE STANDARDS: | | | | |
| NEC/(UL) Specification | CMP | | | |
| CEC/C(UL) Specification | СМР | | | |
| EU CE Mark (Y/N) | Yes | | | |
| EU RoHS Compliant (Y/N) | Yes | | | |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2006 | | | |
| Other Specification | ETL Verified | | | |
| Customer Part Number Reference Specification | cation IBM P/N: 4716738, 33G8221 | | | |
| FLAME TEST: | | | | |
| UL Flame Test | NFPA 262 | | | |
| CSA Flame Test | FT6 | | | |
| PLENUM/NON-PLENUM: | | | | |
| Plenum (Y/N) | Υ | | | |
| Plenum Number | 9689 | | | |
| ELECTRICAL CHARACTERISTICS: | | | | |
| Nom. Characteristic Impedance : | | | | |
| Description | Nom. Characteristic Impedance (Ohms) | | | |
| DGM (3-20M) | 150 | | | |
| VGM (1k) | 600 | | | |
| VGM (256k) | 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 U | nbalance : | | | | |
| Description | | | Maximum | Capacitance Unbalance (% |) |
| DGM | | | 1.00 | | |
| VGM | | | 2.625 | | |
| Nominal Velocity of Prop | bagation : | | | | |
| Description | <u> </u> | | Nominal Ve | elocity of Propagation (%) | |
| VGM | | | 66 | | |
| DGM | | | 78 | | |
| Nom. Conductor DC Res | istance @ 20 Deg. C | 16.7 Ohms/1 | | | |
| Minimum NEXT : | | | | | |
| Description | Frequency (MHz) | Start Freque | ency (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 | ł | I | | | |
| 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 Attenuati | ł | | | | 1 |
| Description | Frequency (MHz) | Start Freque | quency (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 - | | 300 V RMS | | - | - |

Max. Operating Voltage - UL

300 V RMS

Max. Recommended Current



Notes

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

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|------|------------------------------|--------------|--------------------|--------------|-------|
| | 4PR#22FEP2PR#22F FEPSHPVC | 1000 | 80 | BLACK | CZ |

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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