Part Number: 1634A  Paired - IBM Type 1

DESCRIPTION:
22 AWG (solid) bare copper conductor, flame retardant foamed polyethylene insulation, 2 pairs parallel each individually Beldfoil® shielded, overall

SUITABLE APPLICATIONS:
Suitable Applications: Token Ring 4 & 16 Mbps, FDDI over copper and video

PHYSICAL CHARACTERISTICS:

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

INSULATION:
Insulation Material: FRFPE - Flame Retardant Foam Polyethylene
Insulation Resistance: >16,000 MOhms

PAIR:
Pair Shield Material Trade Name: Beldfoil®
Pair Shield Type: Tape
Pair Shield Material: Aluminum Foil-Polyester Tape
Pair Shield % Coverage: 100%
Pair Color Code Chart:

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black &amp; Orange</td>
</tr>
<tr>
<td>2</td>
<td>Red &amp; Green</td>
</tr>
</tbody>
</table>

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

OVERALL NOMINAL DIAMETER:
Overall Nominal Diameter: .296 x .431 in.

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: CMG
- CEC/C(UL) Specification: CMG
- IEEE Specification: IEEE802.5 Token Ring
- TIA/EIA Specification: TIA/EIA-568-A
- Other Specification: ETL Verified
- Customer Part Number Reference Specification: IBM P/N: 4716748

FLAME TEST:
- UL Flame Test: UL1685 FT4 loading
- C(UL) Flame Test: UL1685 FT4 loading
- CSA Flame Test: FT4

PLENUM/NON-PLENUM:
- Plenum (Y/N): N

ELECTRICAL CHARACTERISTICS:
- Nom. Characteristic Impedance: 150 Ω
- Nom. Capacitance Conductor to Conductor @ 1 KHz: 8.5 pF/ft
- Maximum Capacitance Unbalance (pF/100 m): 150 pF/100 m
- Nominal Velocity of Propagation: 78 %
- Nom. Conductor DC Resistance @ 20 Deg. C: 17.4 Ω/1000 ft

<table>
<thead>
<tr>
<th>Description</th>
<th>Frequency (MHz)</th>
<th>Start Frequency (MHz)</th>
<th>Stop Frequency (MHz)</th>
<th>Minimum NEXT (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Max. Attenuation (dB/100 m):

<table>
<thead>
<tr>
<th>Description</th>
<th>Frequency (MHz)</th>
<th>Start Frequency (MHz)</th>
<th>Stop Frequency (MHz)</th>
<th>Max. Attenuation (dB/100 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>2.2</td>
<td></td>
<td>300 V RMS</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>4.5</td>
<td></td>
<td>2.3 Amperes per conductor at 25°C</td>
</tr>
</tbody>
</table>

Max. Operating Voltage - UL: 300 V RMS

Other Maximum Continuous Currents:
- 2.3 Amperes per conductor at 25°C

NOTES:
- IBM qualified Type 1 media cable for use in IBM cabling systems

PUT-UPS AND COLORS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Put-Up (ft.)</th>
<th>Ship Weight (lbs.)</th>
<th>Jacket Color</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1634A 0101000</td>
<td>2 PR #22 FRFPE FRPE BRD PVC</td>
<td>1000</td>
<td>50</td>
<td>BLACK</td>
<td>C Z</td>
</tr>
<tr>
<td>1634A 0102000</td>
<td>2 PR #22 FRFPE FRPE BRD PVC</td>
<td>2000</td>
<td>102</td>
<td>BLACK</td>
<td>C Z</td>
</tr>
<tr>
<td>1634A 0103600</td>
<td>2 PR #22 FRFPE FRPE BRD PVC</td>
<td>3600</td>
<td>190.8</td>
<td>BLACK</td>
<td>C Z</td>
</tr>
</tbody>
</table>

C = CRATE REEL PUT-UP.
Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOL OR REEL AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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