

# IEEE 802.5; ISO/IEC 8802.5

## IBM Cabling System

### Types 1A and 1

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Standard Lengths |   | Standard Unit Wt. |    | Nominal OD |    | AWG (stranding) Diameter Nom. DCR | Shielding | Nom. Imped. (Ω) | Nominal Capacitance |        | Freq. (MHz) | Maximum Attenuation |           | Min. NEXT  |            |
|-------------|----------|------------------------|--------------|------------------|---|-------------------|----|------------|----|-----------------------------------|-----------|-----------------|---------------------|--------|-------------|---------------------|-----------|------------|------------|
|             |          |                        |              | Ft.              | m | Lbs.              | kg | Inch       | mm |                                   |           |                 | * pF/Ft.            | * pF/m |             | (dB/1000')          | (dB/100m) | (dB/3280') | (dB/1000m) |

**IBM Type 1A • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

|                          |      |   |                   |        |       |      |      |       |          |           |     |     |      |                   |       |      |      |      |
|--------------------------|------|---|-------------------|--------|-------|------|------|-------|----------|-----------|-----|-----|------|-------------------|-------|------|------|------|
| <b>IBM Part No.</b> 9688 | NEC: | 2 | 500 <sup>†</sup>  | 152.4  | 26.5  | 12.0 | .296 | 7.52  | 22       | 100%      | 150 | 8.5 | 27.9 | 4                 | 6.7   | 2.2  | 58.0 | 58.0 |
| 4716748                  | CMG: |   | 1000 <sup>†</sup> | 304.8  | 50.0  | 22.7 | x    | x     | (solid)  | Beldfoil  |     |     |      | 16                | 13.4  | 4.4  | 50.4 | 50.4 |
| 33G2772                  | CEC: |   | 2000 <sup>†</sup> | 609.8  | 102.0 | 46.3 | .431 | 10.95 | BC       | Each Pair |     |     |      | 100               | 37.5  | 12.3 | 38.5 | 38.5 |
|                          | CMG: |   | 3600 <sup>†</sup> | 1097.6 | 190.8 | 86.5 |      |       | .026"    | + 65%     |     |     |      | 300               | 65.2  | 21.4 | 31.3 | 31.3 |
|                          |      |   |                   |        |       |      |      |       | 16.7Ω/M' | TC Braid  |     |     |      | 100 <sup>††</sup> | 40.8  | 13.4 | —    | —    |
|                          |      |   |                   |        |       |      |      |       | 54.7Ω/km | Overall   |     |     |      | 300 <sup>††</sup> | 71.0  | 23.3 | —    | —    |
|                          |      |   |                   |        |       |      |      |       |          |           |     |     |      | 600 <sup>††</sup> | 100.3 | 32.9 | —    | —    |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, see 1634A below.

**Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket**

|                           |      |   |                   |       |      |      |      |      |          |           |     |     |      |                   |       |      |      |      |
|---------------------------|------|---|-------------------|-------|------|------|------|------|----------|-----------|-----|-----|------|-------------------|-------|------|------|------|
| <b>IBM Part No.</b> 82688 | NEC: | 2 | 1000 <sup>†</sup> | 304.8 | 47.0 | 21.4 | .248 | 6.30 | 22       | 100%      | 150 | 8.5 | 27.9 | 4                 | 6.7   | 2.2  | 58.0 | 58.0 |
| 4716749                   | CMP: |   |                   |       |      |      | x    | x    | (solid)  | Beldfoil  |     |     |      | 16                | 13.4  | 4.4  | 50.4 | 50.4 |
| 33G8220                   | CEC: |   |                   |       |      |      | .348 | 8.84 | BC       | Each Pair |     |     |      | 100               | 37.5  | 12.3 | 38.5 | 38.5 |
|                           | CMP: |   |                   |       |      |      |      |      | .026"    | + 65%     |     |     |      | 300               | 65.2  | 21.4 | 31.3 | 31.3 |
|                           |      |   |                   |       |      |      |      |      | 16.7Ω/M' | TC Braid  |     |     |      | 100 <sup>††</sup> | 40.8  | 13.4 | —    | —    |
|                           |      |   |                   |       |      |      |      |      | 54.7Ω/km | Overall   |     |     |      | 300 <sup>††</sup> | 71.0  | 23.3 | —    | —    |
|                           |      |   |                   |       |      |      |      |      |          |           |     |     |      | 600 <sup>††</sup> | 100.3 | 32.9 | —    | —    |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

**IBM Type 1 • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**

**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

|                           |      |   |                   |        |       |      |      |       |          |           |     |     |      |    |      |     |      |      |
|---------------------------|------|---|-------------------|--------|-------|------|------|-------|----------|-----------|-----|-----|------|----|------|-----|------|------|
| <b>IBM Part No.</b> 1634A | NEC: | 2 | 1000 <sup>†</sup> | 304.8  | 50.0  | 22.7 | .296 | 7.52  | 22       | 100%      | 150 | 8.5 | 27.9 | 4  | 6.7  | 2.2 | 58.0 | 58.0 |
| 4716748                   | CMG: |   | 2000 <sup>†</sup> | 609.8  | 102.0 | 46.4 | x    | x     | (solid)  | Beldfoil  |     |     |      | 16 | 13.4 | 4.4 | 40.0 | 40.0 |
|                           | CEC: |   | 3600 <sup>†</sup> | 1097.6 | 190.8 | 86.7 | .431 | 10.95 | BC       | Each Pair |     |     |      |    |      |     |      |      |
|                           | CMG: |   |                   |        |       |      |      |       | .026"    | + 65%     |     |     |      |    |      |     |      |      |
|                           |      |   |                   |        |       |      |      |       | 17.4Ω/M' | TC Braid  |     |     |      |    |      |     |      |      |
|                           |      |   |                   |        |       |      |      |       | 57.1Ω/km | Overall   |     |     |      |    |      |     |      |      |



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications. IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

\* Capacitance between conductors

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

⚠ Not RoHS compliant at time of printing. Please check with Belden Technical Support for current compliance information at 1-800-BELDEN-1.

Teflon is a DuPont trademark.