

## 83604 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

20 AWG stranded (7x28) TC conductors, conductors cabled, planum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 4            | 20  | 7x28      | TC - Tinned Copper |

**Insulation****Insulation Material:**

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.1524              |

**Outer Shield****Outer Shield Material:**

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape | 100          |
| 2       |                         | Braid | TC - Tinned Copper           | 85           |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material                | Nom. Wall Thickness (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.3556                   |

**Overall Cabling****Overall Cabling Color Code Chart:**

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | White |
| 3      | Red   |
| 4      | Green |

Overall Nominal Diameter: 4.521 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 400.338 N

Min. Bend Radius (Install)/Minor Axis: 48.260 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

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|                                 |     |
|---------------------------------|-----|
| EU Directive 2002/95/EC (RoHS): | Yes |
|---------------------------------|-----|

|                                       |            |
|---------------------------------------|------------|
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
|---------------------------------------|------------|

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

**Flame Test**

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

|                   |     |
|-------------------|-----|
| C(UL) Flame Test: | FT6 |
|-------------------|-----|

**Plenum/Non-Plenum**

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

**Electrical Characteristics (Overall)****Nom. Capacitance Conductor to Conductor:**

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

|        |
|--------|
| 85.306 |
|--------|

**Nom. Capacitance Cond. to Other Conductor & Shield:**

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

|         |
|---------|
| 167.331 |
|---------|

**Nom. Conductor DC Resistance:**

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

|         |
|---------|
| 28.2166 |
|---------|

**Nominal Outer Shield DC Resistance:**

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

|         |
|---------|
| 15.0926 |
|---------|

**Max. Operating Voltage - UL:**

|         |
|---------|
| Voltage |
|---------|

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

**Max. Recommended Current:**

|         |
|---------|
| Current |
|---------|

|                             |
|-----------------------------|
| 3 Amps per conductor @ 25°C |
|-----------------------------|

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc       |
|---------------|--------|-------------|-------|-------|-----------------|
| 83604 002100  | 30 MT  | 2.313 KG    | RED   | C     | 4#20 FEP SH FEP |
| 83604 0021000 | 305 MT | 14.515 KG   | RED   | C     | 4#20 FEP SH FEP |
| 83604 002500  | 152 MT | 7.258 KG    | RED   | C     | 4#20 FEP SH FEP |

**Notes:**

C = CRATE REEL PUT-UP.

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