# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

**27083R Multi-Conductor - 600V Type TC Cable**

For more Information
please call

1-800-Belden1

## Description:

## Physical Characteristics (Overall)

### Conductor

**AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|---|---|---|---|
| 5 | 14 | 7x22 | TC - Tinned Copper |

### Insulation

**Insulation Material:**

| Insulation Material |
|---|
| XLPE - Cross Linked Polyethylene |

### Outer Shield

**Outer Shield Material:**

| Outer Shield Material |
|---|
| Unshielded |

### Outer Jacket

**Outer Jacket Material:**

| Outer Jacket Material |
|---|
| CPE - Chlorinated Polyethylene |

### Overall Cable

**Overall Cabling Color Code Chart:**

| Number | Color |
|---|---|
| 1 | Black |
| 2 | Red |
| 3 | Blue |
| 4 | Orange |
| 5 | Yellow |

| | |
|---|---|
| **Overall Nominal Diameter:** | 0.470 in. |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Wet Temperature Range:** | -30°C To +90°C |
| **Dry Temperature Range:** | -30°C To +90°C |
| **Max. Recommended Pulling Tension:** | 273 lbs. |
| **Min. Bend Radius (Install)/Minor Axis:** | 4.700 in. |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **NEC/(UL) Specification:** | TC, UL 1277 |
| **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):** | 08/28/2006 |

| | |
|---|---|
| **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:** | ICEA S-73-532, S-95-658, S-66-524 |

### Flame Test

| | |
|---|---|
| **UL Flame Test:** | UL1685 UL Loading |
| **C(UL) Flame Test:** | FT4 |
| **IEEE Flame Test:** | 1202 |
| **ICEA Flame Test:** | T-29-520 |
| **Other Flame Test:** | VW-1 rated Conductors |

### Suitability

| | |
|---|---|
| **Sunlight Resistance:** | Yes |

### Plenum/Non-Plenum

| | |
|---|---|
| **Plenum (Y/N):** | No |

## Electrical Characteristics (Overall)

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 2.6 |

**Max. Operating Voltage - UL:**

| Voltage |
|---|
| 600 V RMS (NEC Type TC) |

**Max. Recommended Current:**

| Current |
|---|
| 12 |

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|

Revision Number: 1 Revision Date: 05-14-2007


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