



Part Number: 1080A

300V, (24 pr) 20 AWG (7x28), (1) 22 AWG (7x30) BC,
PVC/PVC, Foil Shld, PLTC-ER, CMG

Product Description

Twenty-four 20 AWG pairs stranded (7x28) bare copper conductors plus one 22 AWG stranded (7x30) bare copper conductor, twisted pairs, PVC insulation, individual plus an overall Beldfoil® shield (100% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Conductors | No. of Pairs |
|------------------------------------|-----------|------------------|-------------------|--------------|
| 20 | 7x28 | BC - Bare Copper | | 24 |
| 22 | 7x30 | BC - Bare Copper | 1 | |
| Total Number of Conductors: | | | 49 | |

Insulation:

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.068 in |

Color Chart 1:

| Number | Color |
|--------------------|-------------------------------|
| 1 | Black & White and Numbered 1 |
| 2 | Black & White and Numbered 2 |
| 3 | Black & White and Numbered 3 |
| 4 | Black & White and Numbered 4 |
| 5 | Black & White and Numbered 5 |
| 6 | Black & White and Numbered 6 |
| 7 | Black & White and Numbered 7 |
| 8 | Black & White and Numbered 8 |
| 9 | Black & White and Numbered 9 |
| 10 | Black & White and Numbered 10 |
| 11 | Black & White and Numbered 11 |
| 12 | Black & White and Numbered 12 |
| 13 | Black & White and Numbered 13 |
| 14 | Black & White and Numbered 14 |
| 15 | Black & White and Numbered 15 |
| 16 | Black & White and Numbered 16 |
| 17 | Black & White and Numbered 17 |
| 18 | Black & White and Numbered 18 |
| 19 | Black & White and Numbered 19 |
| 20 | Black & White and Numbered 20 |
| 21 | Black & White and Numbered 21 |
| 22 | Black & White and Numbered 22 |
| 23 | Black & White and Numbered 23 |
| 24 | Black & White and Numbered 24 |
| Communication Wire | Orange |

Innershield:

| Type | Material | Material Trade Name | Coverage [%] | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® | 100 % | 22 | 7x30 mm |
| | TC - Tinned Copper | | | | |

Cabling 1:

| |
|---------------|
| Lay Direction |
| Left Hand |

Outershield 1:

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® | 100 % | TC - Tinned Copper | 20 | 7x28 mm |

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.863 in | 0.074 in | Yes |

| | |
|----------------------|--|
| Print Legend: | LEGEND: BELDEN 1080A E34972 24PR20 1C22 SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL) CMG ----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET |
|----------------------|--|

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 9.5 Ohm/1000ft | 6.5 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 30 pF/ft | 55 pF/ft |

Current:

| Max. Recommended Current [A] |
|------------------------------|
| 3 Amps per conductor @ 25°C |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.19 μ H/ft |

Voltage:

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| (PLTC CMG) | 300 V RMS |
| (ITC) | 150 V RMS |

Use

| | |
|------------------------------------|---------|
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |
| Max Recommended Pulling Tension: | 914 lbs |

Safety

| | |
|---------------------|----------|
| C(UL) Flammability: | FT4 |
| ICEA Flammability: | T-29-520 |

| | |
|--------------------|--------------------|
| IEEE Flammability: | 1202 |
| UL Flammability: | UL1685 FT4 Loading |

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -30°C To +105°C |
| UL Temp Rating: | 105°C |

Mechanical Characteristics

| | |
|-----------------------------|------|
| Min Bend Radius/Minor Axis: | 9 in |
|-----------------------------|------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification: | CEC/C(UL) Specification |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| NEC/(UL) Specification: | NEC/(UL) Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | EU CE Mark |

History

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|-------|-------------|---------|
| 1080A 0102500 | BLACK | Reel | 2500 ft |

© 2016 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.