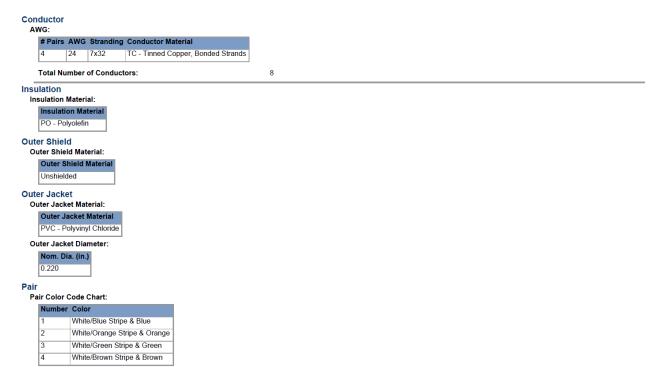


I. General Description:

Composite cable consisting on the following: 2 stranded Cat 5e cables (Belden part 1752A), 2 stranded 12 AWG PVC insulated conductors, 2 stranded 16 AWG PVC insulated conductors, 2 stranded 20 AWG PVC insulated conductors, 2 stranded 22 AWG PVC insulated pairs. All the elements are under a polyester tape wrap tinned copper braid (65% coverage) and a matte PVC jacket.

II. Physical Characteristics (Cat 5e):



-Jacket Colors

Yellow labeled number 1 Yellow labeled number 2

III. Physical Characteristics (12 AWG Conductors):

AWG:

| # conductors Avvo stranding conductor material | | |
|--|---------------|-----|
| 2 12 19x25 BC - Bare Copper | | |
| -Insulation Material | PVC - | Р |
| -Nom. Insulation Thickness | .031" | |
| -Nom. Insulation Diameter | .153 " | |
| -Color Code | Black | . & |



IV. Physical Characteristics (16 AWG Conductors):

AWG:

| " Conduct | ,,,,,, | otrananig | Conductor material | | | |
|-----------|--------|-----------|--------------------|--------|-------|--|
| 2 | 16 | 19x29 | BC - Bare Copper | | | |
| -Insu | lat: | ion 1 | Material | | PVC - | |
| -Nom. | Ins | sulat | tion Thi | ckness | .016" | |
| -Nom. | Ins | sulat | cion Dia | meter. | .089" | |

-Color Code Red & White

V. Physical Characteristics (20 AWG Conductors):

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|----------------|--------------------|
| 2 | 20 | 19 x 32 | BC - Bare Copper |

Conductors AWG Stranding Conductor Material

-Insulation Material PVC - Polyvinyl Chloride
-Nom. Insulation Thickness .016"
-Nom. Insulation Diameter .069"
-Color Code Brown & Green

VI. Physical Characteristics (22 AWG Pairs):

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|----------------|--------------------|
| 2 | 22 | 19 x 34 | BC - Bare Copper |

| -Insulation Material | PVC - Polyvinyl Chloride |
|----------------------------|--------------------------------|
| -Nom. Insulation Thickness | .010" |
| -Nom. Insulation Diameter | .051" |
| -Nom. Pair Diameter | .102" |
| -Color Code | Blue & Orange, Yellow & Violet |
| | |



VII. Electrical Characteristics (Cat 5e):

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Capacitance Unbalance (pF/100 m):

66

Nominal Velocity of Propagation:

VP (%)

Maximum Delay:

Delay (ns/100 m) 510

Max. Delay Skew:

Delay Skew (ns/100 m) 25

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m) 9

Max. Operating Voltage - UL:

Voltage 300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|----------------|------------------|-----------------|-------------|
| 1 | 2.4 | 65.3 | 65.3 | 62.9 | 20.0 |
| 4 | 4.8 | 56.3 | 56.3 | 51.5 | 23.0 |
| 8 | 6.8 | 51.8 | 51.8 | 45.0 | 24.5 |
| 10 | 7.7 | 50.3 | 50.3 | 42.6 | 25.0 |
| 16 | 9.7 | 47.3 | 47.3 | 37.5 | 25.0 |
| 20 | 11.0 | 45.8 | 45.8 | 34.8 | 25.0 |
| 25 | 12.4 | 44.3 | 44.3 | 31.9 | 24.3 |
| 31.25 | 13.9 | 42.9 | 42.9 | 29.0 | 23.6 |
| 62.5 | 20.2 | 38.4 | 38.4 | 18.3 | 21.5 |



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| 100 | 26.0 | 35.3 | 35.3 | 9.2 | 20.1 |
|-----|------|------|------|-----|------|
| 155 | 33.2 | 32.5 | 32.5 | 0 | 19.0 |
| 200 | 38.4 | 30.8 | 30.8 | | 19.0 |
| 250 | 43.7 | 29.3 | 29.3 | | 18.0 |
| 300 | 48.6 | 28.2 | 28.2 | | 18.0 |
| 310 | 49.5 | 27.9 | 27.9 | | 18.0 |
| 350 | 53.2 | 27.2 | 27.2 | | 17.0 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 12 | 105 ± 10 | 63.8 | 60.8 |
| 4 | 100 ± 12 | 100 ± 10 | 51.7 | 48.7 |
| 8 | 100 ± 12 | 100 ± 10 | 45.7 | 42.7 |
| 10 | 100 ± 12 | 100 ± 10 | 43.8 | 40.8 |
| 16 | 100 ± 12 | 100 ± 10 | 39.7 | 36.7 |
| 20 | 100 ± 12 | 100 ± 10 | 37.7 | 34.7 |
| 25 | 100 ± 15 | 100 ± 10 | 35.8 | 32.8 |
| 31.25 | 100 ± 15 | 100 ± 10 | 33.9 | 30.9 |
| 62.5 | 100 ± 15 | 100 ± 10 | 27.8 | 24.9 |
| 100 | 100 ± 15 | 100 ± 10 | 23.8 | 20.8 |
| 155 | 100 ± 18 | 100 ± 10 | 19.9 | 16.9 |
| 200 | 100 ± 20 | 100 ± 10 | 17.7 | 14.7 |
| 250 | 100 ± 20 | 100 ± 10 | 15.8 | 12.8 |
| 300 | 100 ± 20 | 100 ± 10 | 14.2 | 11.2 |
| 310 | 100 ± 20 | 100 ± 10 | 13.9 | 10.9 |
| 350 | 100 ± 22 | 100 ± 10 | 12.9 | 9.9 |

Electrical characteristics shown are prior to bundling into a composite cable

VIII. Electrical Characteristics (12 AWG Conductors):

-Nom. Conductor DC Resistance 1.6 Ohm/1000 ft @ 20°C

-Max. Operating Voltage

300 V RMS

IX. Electrical Characteristics (16 AWG Conductors):

-Nom. Conductor DC Resistance 4.2 Ohm/1000 ft @ 20°C

-Max. Operating Voltage

300 V RMS

X. Electrical Characteristics (20 AWG Conductors):

-Nom. Conductor DC Resistance 10.2 Ohm/1000 ft @ 20°C

-Max. Operating Voltage

300 V RMS

XI. Electrical Characteristics (22 AWG Pairs:

-Nom. Conductor DC Resistance 16.3 Ohm/1000 ft @ 20°C

-Max. Operating Voltage

300 V RMS

XII. Physical Characteristics (Overall):

-Outer Shield Type

Braid

-Outer Shield Material

Tinned Copper

-Outer Shield Coverage

65%



-Overall Cabling Separator

Material PE Tape

-Outer Jacket Material PVC - Polyvinyl Chloride (matte

finish)

-Nom. Outer Jacket Thickness .050"

-Overall Nom. Diameter 0.650"

XIII. Mechanical Characteristics (Overall):

-Operating Temperature Range -20°C To +75°C

-Max. Recommended Pulling Tension 375 lbs.

-Min. Bend Radius 6.5"

XIV. Applicable Specifications and Agency Compliance (Overall):

-EU Directive 2011/65/EU (ROHS II) Yes
-EU CE Mark Yes
-EU Directive 2000/53/EC (ELV) Yes
-EU Directive 2002/95/EC (RoHS) Yes
-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