



Description:

25 AWG solid .018" tinned copper conductors, Gas-injected FHDPE insulation, Duobond® foil plus a tinned copper interlocked serve shield (100% coverage), PVC inner jacket, PVC jacket.

Usage (Overall)

Suitable Applications:

RGB Projectors, LCD Projectors, Video Distribution, Component Video, Graphic Displays, Special Effects Editing, Animation, Video Post Production, Home Theater, Offices, Boardrooms, Auditoriums, Teleconferencing, Theaters

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 6 | 25 | Solid | TC - Tinned Copper | .018 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.074 |

Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|---------|-------------------------|-------------------|---|--------------|
| 1 | Duobond® | Tape | Aluminum Foil-Polyester Tape Lightly bonded to dielectric | 100 |
| 2 | | Interlocked Serve | TC - Tinned Copper | 95 |

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (in.) |
|--------------------------|-----------------|
| PVC - Polyvinyl Chloride | .114 |

Inner Jacket Color Code Chart:

| Number | Color |
|--------|--------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | Yellow |
| 5 | Black |
| 6 | White |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cabling

Overall Nominal Diameter: 0.423 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 60°C

1280R Coax - Mini Hi-Res Component Video Cable

| | |
|-----------------------------------|-----------------|
| Non-UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 78 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 135 lbs. |
| Min. Bend Radius (Each Coax): | 1.100 in. |
| Min. Bend Radius (Overall): | 4.250 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| EU CE Mark: | No |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| 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: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |

Suitability

| | |
|-----------------------|--------------|
| Suitability - Indoor: | Yes - Risers |
|-----------------------|--------------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
.087

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
17.0

Nominal Velocity of Propagation:

VP (%)
80

Nominal Delay:

Delay (ns/ft)
1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
34

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.4

1280R Coax - Mini Hi-Res Component Video Cable

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | 0.52 |
| 5 | 1.17 |
| 50 | 3.7 |
| 100 | 4.9 |
| 200 | 6.7 |
| 400 | 9.5 |
| 750 | 13.4 |
| 900 | 15.0 |
| 1000 | 15.8 |
| 3000 | 31.2 |

Max. Operating Voltage - UL:

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

Max. Operating Voltage - Non-UL:

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

Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
| | | 5 | 850 | 20 |

Sweep Test

Sweep Testing: 5 - 850 MHz

Misc. Information (Overall)

Other Description: Corrected Color Code. 10-03-05 BAG: Added sweep testing and connectors.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|----------------------------------|
| 1280R B591000 | 1,000 FT | 87.000 LB | BLACK, MATTE | C | 6#25LDPE/GIFHDLDPPE SH FRPVCPCVC |
| 1280R B59500 | 500 FT | 44.000 LB | BLACK, MATTE | C | 6#25LDPE/GIFHDLDPPE SH FRPVCPCVC |

Notes:

C = CRATE REEL PUT-UP.

Bundled RGB Cable

CM, CMR and CMP Rated



| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Cond. | Standard Lengths | | Standard Unit Weight | | Conductor (stranding) Diameter Nom. DCR | Nominal Core OD | | Shielding Materials Nom. DCR | Nominal OD | | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nominal Capacitance | | Nominal Attenuation | | |
|-------------|----------|------------------------|--------------|------------------|---|----------------------|----|---|-----------------|----|------------------------------|------------|----|---------------|--------------------|---------------------|------|---------------------|-------------|----------|
| | | | | Ft. | m | Lbs. | kg | | Inch | mm | | Inch | mm | | | pF/Ft. | pF/m | MHz | dB/ 100 Ft. | dB/ 100m |

26 AWG Stranded (7x34) .019" BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (93% Coverage) • Overall Polyester Tape

Foam HDPE Insulation • Inner PVC Jacket (Color Code: See Chart Below) • Overall Black PVC Jacket

| | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------|--------------------|-------------|----------------|----------------|--------------|---------------|---|---------------------------------------|---|--------------|----|-----|------|------|---|--|---|--|
| | UL AWM Styles 1354 and 2668 (30V 60°C) | 1164B | NEC: CM CEC: CM | 3 | 500 1000 | 152.4 304.8 | 38.0 78.0 | 17.2 35.5 | 26 AWG (7x34) .019" 41.5Ω/M' 136.1Ω/km | .090 Coax OD: .146 2.29 3.71 | Duofoil + 93% TC Braid 8.6Ω/M' 28.2Ω/km | .388 9.86 | 75 | 78% | 17.3 | 56.7 | 1 5 10 30 50 100 200 400 700 900 1000 | .6 1.3 1.8 3.1 3.9 5.4 7.5 10.4 13.5 15.2 15.9 | 2.0 4.3 5.9 10.2 12.8 17.7 24.6 34.1 44.3 49.9 52.2 | |
| | 1167B | NEC: CM CEC: CM | 4 | 1000 | 304.8 | 105.0 | 47.7 | same as above | .090 Coax OD: .146 2.29 3.71 | same as above | .455 11.56 | | | | | | | | | |
| | 1418B | NEC: CM CEC: CM | 5 | 500 1000 | 152.4 304.8 | 61.5 119.0 | 27.9 54.0 | same as above | .090 Coax OD: .146 2.29 3.71 | same as above | .477 12.12 | | | | | | | | | |

Color Code Chart

| Cond. | Color | Cond. | Color |
|-------|-------|-------|--------|
| 1 | Red | 4 | White |
| 2 | Green | 5 | Yellow |
| 3 | Blue | | |

25 AWG Solid .018" Tinned Copper Conductors • Duobond® (100% Coverage) + Tinned Copper Interlocked Serve Shield (95% Coverage)

FPFA Insulation • Inner PVC Jacket (Color Code: See chart below) • Overall Black PVC Jacket

| | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|---------------------------------|----------------------|----------------------|------------------------|----------------------|---------------------|---------------|--|---------------------------------------|---|--------------|----|-----|------|------|---|---|---|--|
| | 300V RMS 60°C | 1277R <small>new</small> | NEC: CMR CEC: CMG | 3 | 500† 1000† | 152.4 304.8 | 25.5 48.0 | 11.6 21.8 | 25 AWG (solid) .018" 34.0Ω/M' 111.6Ω/km | .074 Coax OD: .114 1.88 2.90 | Duobond + 95% TC Braid 5.4Ω/M' 17.7Ω/km | .320 8.13 | 75 | 80% | 17.0 | 55.8 | 1 5 50 100 200 400 750 900 1000 3000 | .5 1.2 3.7 4.9 6.7 9.5 13.4 15.0 15.8 31.2 | 1.7 3.8 12.1 16.1 22.0 31.2 44.0 49.2 51.8 102.4 | |
| | 1278R <small>new</small> | NEC: CMR CEC: CMG | 4 | 250 500† 1000† | 76.2 152.4 304.8 | 21.8 31.5 60.0 | 9.9 14.3 27.2 | same as above | .074 Coax OD: .114 1.88 2.90 | same as above | .351 8.92 | | | | | | | | | |
| | 1279R <small>new</small> | NEC: CMR CEC: CMG | 5 | 500† 1000† | 152.4 304.8 | 40.5 80.0 | 18.4 36.3 | same as above | .074 Coax OD: .114 1.88 2.90 | same as above | .403 10.24 | | | | | | | | | |
| | 1280R <small>new</small> | NEC: CMR CEC: CMG | 6 | 500† 1000† | 152.4 304.8 | 44.0 87.0 | 20.0 39.5 | same as above | .074 Coax OD: .114 1.88 2.90 | same as above | .423 10.74 | | | | | | | | | |

100% Sweep tested. 5 MHz to 850 MHz.
See page 6.34 for single coax versions.

Color Code Chart

| Cond. | Color | Cond. | Color |
|-------|-------|-------|--------|
| 1 | Red | 4 | Yellow |
| 2 | Green | 5 | Black |
| 3 | Blue | 6 | White |

Plenum • FPFA Insulation • Inner Fluorocopolymer Jacket (Color Code: See chart below) • Overall Gray PVC Jacket

| | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------|---------------------------------|----------------------|--------------------|------------------------|----------------------|---------------------|---------------|---|---------------------------------------|---|--------------|----|-----|------|------|--|--|--|--|
| | 300V RMS 60°C | 1277P <small>new</small> | NEC: CMP CEC: CMP | 3 | 500 1000 | 152.4 304.8 | 19.0 41.0 | 9.8 19.5 | 25 AWG (solid) .018" 34.0Ω/M' 11.6Ω/km | .074 Coax OD: .111 1.91 2.92 | Duobond + 95% TC Braid 5.4Ω/km 17.7Ω/km | .276 7.01 | 75 | 81% | 16.8 | 55.1 | 1 5 50 100 200 400 750 1000 | .5 1.2 3.8 5.2 7.1 10.0 14.3 16.9 | 1.6 3.9 12.5 17.1 23.3 32.8 46.9 55.4 | |
| | 1278P <small>new</small> | NEC: CMP CEC: CMP | 4 | 500 1000 | 152.4 304.8 | 27.0 52.0 | 12.7 24.1 | same as above | .074 Coax OD: .111 1.91 2.92 | same as above | .304 7.72 | | | | | | | | | |
| | 1279P <small>new</small> | NEC: CMP CEC: CMP | 5 | 250 500 1000 | 76.2 152.4 304.8 | 19.0 34.0 68.0 | 8.6 15.9 31.3 | same as above | .074 Coax OD: .111 1.91 2.92 | same as above | .335 8.51 | | | | | | | | | |
| | 1280P <small>new</small> | NEC: CMP CEC: CMP | 6 | 500 1000 | 152.4 304.8 | 39.0 79.0 | 17.7 35.9 | same as above | .074 Coax OD: .111 1.91 2.92 | same as above | .369 9.37 | | | | | | | | | |

100% Sweep tested. 5 MHz to 850 MHz.
See page 6.34 for single coax versions.

Color Code Chart

| Cond. | Color | Cond. | Color |
|-------|-------|-------|--------|
| 1 | Red | 4 | Yellow |
| 2 | Green | 5 | Black |
| 3 | Blue | 6 | White |

BC = Bare Copper • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper

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

