

Industrial Data Solutions® - Industrial Ethernet Cables

Coaxial Cables



| De- scription | Part No. | UL NEC/ C(UL)CEC Type IEC | Standard Lengths | | Standard Unit Weight | | Conductor (Stranding) Diameter Nom. DCR | Nominal Insulation OD | | Shielding Material 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/ 100 m |

Thinnest 10Base2 Ethernet • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • Duobond® II • 93% Tinned Copper Braid

| Ethernet • Foam HDPE Insulation • Grey PVC Jacket | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-------------|------|--------|-------|------|------|-------------|-------|------|--------------|-------|------|----|-----|------|------|------|------|------|
| | 30V 60°C | 9907 | NEC: | 500 | 152 | 12.6 | 5.7 | 0.94 mm | 0.102 | 2.59 | Duobond® II | 0.185 | 4.70 | 50 | 80% | 25.4 | 83.3 | 1 | 0.4 | 1.4 |
| | UL AWM Style 1354 | | CL2 | U-1000 | U-305 | 25.1 | 11.4 | 20 AWG | | | + 93% TC | | | | | | | 10 | 1.3 | 4.3 |
| | | | CM | 1000 | 305 | 25.1 | 11.4 | (19x32) TC | | | Braid | | | | | | | 50 | 2.9 | 9.5 |
| | | | CEC: | 1640 | 500 | 41.0 | 18.6 | 47.9 Ω/km* | | | 19.0 Ω/km*** | | | | | | | 100 | 4.2 | 13.8 |
| | | | CM | 3280 | 1000 | 82.2 | 37.3 | 28.9 Ω/km** | | | | | | | | | | 200 | 6.1 | 20.0 |
| | | | | | | | | | | | | | | | | | 400 | 8.9 | 29.2 | |
| | | | | | | | | | | | | | | | | | 700 | 12.1 | 39.7 | |
| | | | | | | | | | | | | | | | | | 900 | 13.9 | 45.6 | |
| | | | | | | | | | | | | | | | | | 1000 | 14.8 | 48.6 | |

DEC Part No. 17-01248-00

| Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket | | | | | | | | | | | | | | | | | | | | |
|---|------------|--------------|------|--------|-----|------|------|-------------|-------|------|--------------|-------|------|----|-----|------|------|------|------|------|
| | 300V 150°C | 89907 | NEC: | † 500 | 152 | 12.6 | 5.7 | 0.94 mm | 0.095 | 2.41 | Duobond® II | 0.160 | 4.06 | 50 | 80% | 25.4 | 83.3 | 1 | 0.4 | 1.4 |
| | | | CL2P | † 1000 | 305 | 24.0 | 10.9 | 20 AWG | | | + 93% TC | | | | | | | 10 | 1.3 | 4.3 |
| | | | CMP | † 2500 | 762 | 60.2 | 27.3 | (19x32) TC | | | Braid | | | | | | | 50 | 2.9 | 9.5 |
| | | | CEC: | | | | | 47.9 Ω/km* | | | 19.0 Ω/km*** | | | | | | | 100 | 4.2 | 13.8 |
| | | | CMP | | | | | 28.9 Ω/km** | | | | | | | | | | 200 | 6.1 | 20.0 |
| | | | | | | | | | | | | | | | | | 400 | 9.2 | 30.2 | |
| | | | | | | | | | | | | | | | | | 700 | 12.9 | 42.3 | |
| | | | | | | | | | | | | | | | | | 900 | 15.0 | 49.2 | |
| | | | | | | | | | | | | | | | | | 1000 | 16.0 | 52.5 | |

RG-58/U Type

DEC Part No. 17-01248-00
Suitable for outdoor and direct burial applications.

Thickest 10Base5 Ethernet • 12 AWG • Solid 2.1 mm Bare Copper • Duobond® IV Quad Shield

| Ethernet • Foam PE Insulation • Yellow PVC Jacket | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-------------|------|------|-----|-------|------|------------|-------|------|-------------|-------|-------|----|-----|------|------|-----|------|-----|
| | 30V 60°C | 9880 | NEC: | 500 | 152 | 66.1 | 30.0 | 2.05 mm | 0.243 | 6.17 | Duobond® IV | 0.405 | 10.29 | 50 | 78% | 25.9 | 85.3 | 1 | 0.2 | 0.6 |
| | UL AWM Style 1478 | | CL2 | 1000 | 305 | 131.2 | 59.5 | 12 AWG | | | Quad Shield | | | | | | | 5 | 0.4 | 1.2 |
| | | | CM | 1640 | 500 | 220.2 | 99.9 | Solid BC | | | 5.0 Ω/km*** | | | | | | | 10 | 0.5 | 1.7 |
| | | | CEC: | | | | | 9.7 Ω/km* | | | | | | | | | | 50 | 1.2 | 3.9 |
| | | | CM | | | | | 4.7 Ω/km** | | | | | | | | | | 100 | 1.7 | 5.6 |
| | | | | | | | | | | | | | | | | | 200 | 2.6 | 8.4 | |
| | | | | | | | | | | | | | | | | | 400 | 3.9 | 12.8 | |
| | | | | | | | | | | | | | | | | | 700 | 5.5 | 18.1 | |
| | | | | | | | | | | | | | | | | | 900 | 6.5 | 21.3 | |
| | | | | | | | | | | | | | | | | | 1000 | 6.9 | 22.6 | |

DEC Part No. 17-00451-00
Ring-band stripes marked every 2.5 m to aid users in tap placement.

| Plenum • Foam FEP Insulation • Orange Fluorocopolymer Jacket | | | | | | | | | | | | | | | | | | | | | |
|--|-------|--------------|---------|---------|-----|-------|-------|------------|-------|------|-------------|-------|------|----|-----|------|------|--|--|--|-----------|
| | 150°C | 89880 | NEC: | 1000 | 305 | 134.3 | 60.9 | 2.05 mm | 0.245 | 6.22 | Duobond® IV | 0.375 | 9.53 | 50 | 78% | 25.9 | 85.3 | | | | |
| | | | CL2P | †† 1640 | 500 | 225.1 | 102.1 | 12 AWG | | | Quad Shield | | | | | | | | | | see above |
| | | | CMP | | | | | Solid BC | | | 5.0 Ω/km*** | | | | | | | | | | |
| | | | CEC: | | | | | 9.7 Ω/km* | | | | | | | | | | | | | |
| | | | CMP FT6 | | | | | 4.7 Ω/km** | | | | | | | | | | | | | |

DEC Part No. 17-00324-00
Ring-band stripes marked every 2.5 m to aid users in tap placement. Suitable for outdoor and direct burial applications.

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance
† Spools are one piece, but length may vary ±10% from length shown.
†† Final put-up length may vary from length shown ±10% for spools and reels, ±5% for UnReel® cartons.

Duobond® II and Duobond® IV see technical information page 23.13.

Industrial Data Solutions® - Industrial Twinax

Blue Hose® Cables



| De- scription | Part No. | UL NEC/ C(UL)/CEC Type IEC | Standard Lengths | | Standard Unit Weight | | Conductor (Stranding) Diameter Nom. DCR | Nominal Insulation OD | | Shielding Material 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/ 100 m |

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall Beldfoil® + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

| Plenum • FEP Insulation • Blue FEP Jacket | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|--------------|----------|---------|-----|------|------|---------|-----------|------|-------------|--------------|------|----|-----|------|------|---|-----|------|------|------|
| <p>Z-Fold®</p> | 300V 200°C | 89463 | NEC: | 1000 | 305 | 34.0 | 15.4 | 0.96 mm | 0.073 | 1.85 | Overall | 0.203 | 5.16 | 78 | 66% | 19.7 | 64.6 | 1 | 0.6 | 2.0 | | |
| | High Temperature | | CMP CL2P | 2500 | 762 | 90.2 | 40.9 | 20 AWG | | | Beldfoil® | | | | | | | | 10 | 2.1 | 6.9 | |
| | | | | CEC: | | | | | (7x28) TC | | | + Overall | | | | | | | | 50 | 5.0 | 16.4 |
| | | | | CMP FT6 | | | | | | | | 76% TC Braid | | | | | | | | 100 | 7.5 | 24.6 |
| | | | | | | | | | | | | + Drain Wire | | | | | | | | 200 | 11.0 | 36.1 |
| | | | | | | | | | | | (20 AWG TC) | | | | | | | | 400 | 16.0 | 52.5 | |

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Beldfoil® • 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

| Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|---------------|-----------|---------|------|-------|-------|---------|-----------|------|-------------|--------------|---------|----|-----|------|------|--|--|-----------|--|
| | 300V 60°C | 129463 | NEC: | 1000 | 305 | 122.4 | 55.5 | 0.96 mm | 0.076 | 1.92 | Overall | *0.238 | *6.05 | 78 | 66% | 19.7 | 64.6 | | | see above | |
| | Aluminum Armored | | CM CL2 | 6000 | 1829 | 925.9 | 420.0 | 20 AWG | | | Beldfoil® | **0.563 | **14.30 | | | | | | | | |
| | | | | CEC: | | | | | (7x28) TC | | | + Overall | | | | | | | | | |
| | | | | CM | | | | | | | | 55% TC Braid | | | | | | | | | |
| | | | | CMG FT4 | | | | | | | | + Drain Wire | | | | | | | | | |
| | | | HLBCD | | | | | | | | (20 AWG TC) | | | | | | | | | | |
| | | | (Haz Loc) | | | | | | | | | | | | | | | | | | |

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

| Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|---------------|-----------|---------|------|--------|-------|---------|-----------|------|-------------|--------------|---------|----|-----|------|------|--|--|-----------|--|
| | 300V 60°C | 139463 | NEC: | 1000 | 305 | 220.5 | 100.0 | 0.96 mm | 0.076 | 1.92 | Overall | *0.238 | *6.05 | 78 | 66% | 19.7 | 64.6 | | | see above | |
| | Steel Armored | | CM CL2 | 6000 | 1829 | 1491.2 | 676.4 | 20 AWG | | | Beldfoil® | **0.563 | **14.30 | | | | | | | | |
| | | | | CEC: | | | | | (7x28) TC | | | + Overall | | | | | | | | | |
| | | | | CM | | | | | | | | 55% TC Braid | | | | | | | | | |
| | | | | CMG FT4 | | | | | | | | + Drain Wire | | | | | | | | | |
| | | | HLBCD | | | | | | | | (20 AWG TC) | | | | | | | | | | |
| | | | (Haz Loc) | | | | | | | | | | | | | | | | | | |

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

| Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---------------|------|------|-----|-------|-------|-----------|-------|------|--------------|---------|---------|----|-----|------|------|--|--|-----------|
| | 300V 60°C | 189463 | NEC: | 2000 | 610 | 258.2 | 117.1 | 0.96 mm | 0.076 | 1.92 | Overall | *0.238 | *6.05 | 78 | 66% | 19.7 | 64.6 | | | see above |
| | Continuously Armored | | PLTC | | | | | 20 AWG | | | Beldfoil® | **0.500 | **12.70 | | | | | | | |
| | | | | | | | | (7x28) TC | | | + Overall | | | | | | | | | |
| | | | | | | | | | | | 55% TC Braid | | | | | | | | | |
| | | | | | | | | | | | + Drain Wire | | | | | | | | | |
| | | | | | | | | | | | (20 AWG TC) | | | | | | | | | |

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables



| De- scription | Part No. | UL NEC/ C(UL)CEC Type IEC | Standard Lengths | | Standard Unit Weight | | Conductor (Stranding) Diameter Nom. DCR | Nominal Insulation OD | | Shielding Material 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. |

22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • Duofoil® • 22 AWG Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket**

| | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------|----------|-------|-------|------|------|------------|-------|------|--------------|-------|------|-----|-----|-----|------|-----|-----|------|
| 30V 60°C | 9182 | NEC: | U-500 | U-152 | 22.5 | 10.2 | 0.78 mm | 0.137 | 3.49 | Overall | 0.345 | 8.76 | 150 | 78% | 8.8 | 28.9 | 1 | 0.4 | 1.3 |
| UL AWM Style 2668 | | CL2X CMX | 500 | 152 | 22.9 | 10.4 | 22 AWG | | | Duofoil® | | | | | | | 10 | 1.2 | 3.9 |
| | | CEC: | 1000 | 305 | 44.1 | 20.0 | (19x34) TC | | | + Drain Wire | | | | | | | 50 | 2.7 | 8.9 |
| | | CMX | | | | | | | | (22 AWG TC) | | | | | | | 100 | 4.3 | 14.1 |
| | | | | | | | | | | | | | | | | | 200 | 6.2 | 20.3 |
| | | | | | | | | | | | | | | | | | 400 | 8.8 | 28.9 |



VW-1

Color Code: Black, Yellow

Dual version: YR41609
CPE jacket optional.**Datalene® Insulation • Black FRNC/LSNH Jacket**

| | | | | | | | | | | | | | | | | | | | |
|-----------|---------------|-----------|------|------|-------|------|------------|-------|------|--------------|-------|------|-----|-----|-----|------|-----|-----|------|
| 300V 80°C | 9182NH | IEC 332-1 | 1000 | 305 | 50.3 | 22.8 | 0.78 mm | 0.136 | 3.45 | Overall | 0.346 | 8.80 | 150 | 78% | 8.8 | 28.9 | 1 | 0.4 | 1.3 |
| | | BS 7655 | 1640 | 500 | 80.0 | 36.3 | 22 AWG | | | Duofoil® | | | | | | | 5 | 0.9 | 2.8 |
| | | | 3280 | 1000 | 150.1 | 68.1 | (19x34) TC | | | + Drain Wire | | | | | | | 10 | 1.2 | 3.9 |
| | | | | | | | | | | (22 AWG TC) | | | | | | | 20 | 1.7 | 5.6 |
| | | | | | | | | | | | | | | | | | 50 | 2.7 | 8.9 |
| | | | | | | | | | | | | | | | | | 100 | 4.3 | 14.1 |
| | | | | | | | | | | | | | | | | | 200 | 6.2 | 20.3 |
| | | | | | | | | | | | | | | | | | 400 | 8.8 | 28.9 |



Color Code: Black, Yellow

Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket

| | | | | | | | | | | | | | | | | | | | |
|--|--------------|---------|--------|-----|------|------|------------|-------|------|--------------|-------|------|-----|-----|-----|------|-----|-----|------|
| | 89182 | NEC: | 100 | 31 | 6.4 | 2.9 | 0.78 mm | 0.139 | 3.53 | Overall | 0.307 | 7.80 | 150 | 78% | 8.8 | 28.9 | 1 | 0.4 | 1.3 |
| | | CMP | † 500 | 152 | 28.0 | 12.7 | 22 AWG | | | Duofoil® | | | | | | | 10 | 1.2 | 3.9 |
| | | CL2P | † 1000 | 305 | 53.1 | 24.1 | (19x34) TC | | | + Drain Wire | | | | | | | 50 | 2.7 | 8.9 |
| | | CEC: | | | | | | | | (22 AWG TC) | | | | | | | 100 | 4.3 | 14.1 |
| | | CMP FT6 | | | | | | | | | | | | | | | 200 | 6.2 | 20.3 |
| | | | | | | | | | | | | | | | | | 400 | 8.8 | 28.9 |



Color Code: Black, Yellow

TC = Tinned Copper • DCR = DC resistance

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

Duofoil® see technical information page 23.13.

Teflon® is a DuPont trademark.