


Low Loss 50 Ohm Transmission Line Flexible Communications Cable, Braid Shielded Coax

For Wireless Communication Systems, Land Mobile Radio, Cellular and WLANs

| Description | Part No. | UL NEC/ C(UL) CEC Type | 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 |


RF500 Type • 7 AWG Solid .142" Bare Copper-covered Aluminum • Duobond® II + 90% Tinned Copper Braid Shield

Foamed Polyethylene Insulation • Black Polyethylene Jacket

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|----------------------------------------------------------------------------------|---------------------|------|-------|-------|------|------|--------------------------------------------------------|------|-----|-------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| RF500 300V | 7976A new | | 500 | 152.4 | 56.0 | 25.5 | 7 AWG (solid) .142" CCA .82Ω/M' 2.7Ω/km | .370 | 9.4 | Duobond II + 90% TC Braid 1.6Ω/M' 5.2Ω/km | .500 | 12.70 | 50 | 84% | 25.1 | 82.3 | 30 | .6 | 1.8 |
| | | 1000 | 304.8 | 108.0 | 49.1 | 50 | | | | | | | | | | | .7 | 2.4 | |
|  | | | | | | | | | | | | | | | | | 150 | 1.2 | 3.9 |
| | | | | | | | | | | | | | | | | | 220 | 1.5 | 4.9 |
| | | | | | | | | | | | | | | | | | 450 | 2.2 | 7.2 |
| | | | | | | | | | | | | | | | | | 900 | 3.2 | 10.5 |
| | | | | | | | | | | | | | | | | | 1500 | 4.2 | 13.8 |
| | | | | | | | | | | | | | | | | | 1800 | 4.7 | 15.4 |


100% Sweep tested to 6 GHz.

Foamed Polyethylene Insulation • Black Flame Retardant PVC Jacket

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|-----------------------------------------------------------------------------------|---------------------|------|------|-------|-------|------|--------------------------------------------------------|------|-----|-------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| RF500 300V | 7976R new | NEC: | 500 | 152.4 | 67.5 | 30.7 | 7 AWG (solid) .142" CCA .82Ω/M' 2.7Ω/km | .370 | 9.4 | Duobond II + 90% TC Braid 1.6Ω/M' 5.2Ω/km | .500 | 12.70 | 50 | 84% | 25.1 | 82.3 | 3000 | 6.3 | 20.7 |
| | | CMR: | 1000 | 304.8 | 131.0 | 59.5 | | | | | | | | | | | 3500 | 6.9 | 22.6 |
|  | | | | | | | | | | | | | | | | | 4500 | 8.0 | 26.2 |
| | | | | | | | | | | | | | | | | | 5800 | 9.3 | 30.5 |
| | | | | | | | | | | | | | | | | | 6000 | 9.5 | 31.2 |
| | | | | | | | | | | | | | | | | | 2500 | 5.7 | 18.7 |

100% Sweep tested to 6 GHz.


Foamed Polyethylene Insulation • Water Blocking Gel • Black Polyethylene Jacket

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|------------------------------------------------------------------------------------|----------------------|------|-------|-------|------|------|--------------------------------------------------------|------|-----|-------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| RF500 300V | 7976WB new | | 500 | 152.4 | 56.5 | 25.7 | 7 AWG (solid) .142" CCA .82Ω/M' 2.7Ω/km | .370 | 9.4 | Duobond II + 90% TC Braid 1.6Ω/M' 5.2Ω/km | .500 | 12.70 | 50 | 84% | 25.1 | 82.3 | 3000 | 6.3 | 20.7 |
| | | 1000 | 304.8 | 109.0 | 49.5 | 3500 | | | | | | | | | | | 6.9 | 22.6 | |
|  | | | | | | | | | | | | | | | | | 4500 | 8.0 | 26.2 |
| | | | | | | | | | | | | | | | | | 5800 | 9.3 | 30.5 |
| | | | | | | | | | | | | | | | | | 6000 | 9.5 | 31.2 |
| | | | | | | | | | | | | | | | | | 2500 | 5.7 | 18.7 |

100% Sweep tested to 6 GHz.


RF600 Type • 5.5 AWG Solid .176" Bare Copper-covered Aluminum • Duobond® II + 85% Tinned Copper Braid Shield

Foamed Polyethylene Insulation • Black Polyethylene Jacket

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|------------------------------------------------------------------------------------|---------------------|------|-------|-------|------|------|----------------------------------------------------------|------|------|-------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| RF600 300V | 7977A new | | 500 | 152.4 | 73.5 | 33.4 | 5.5 AWG (solid) .176" CCA .53Ω/M' 1.7Ω/km | .455 | 11.6 | Duobond II + 85% TC Braid 1.8Ω/M' 5.9Ω/km | .590 | 14.99 | 50 | 85% | 24.6 | 80.6 | 30 | .5 | 1.5 |
| | | 1000 | 304.8 | 145.0 | 65.9 | 50 | | | | | | | | | | | .6 | 2.0 | |
|  | | | | | | | | | | | | | | | | | 150 | 1.0 | 3.2 |
| | | | | | | | | | | | | | | | | | 220 | 1.2 | 3.9 |
| | | | | | | | | | | | | | | | | | 450 | 1.7 | 5.6 |
| | | | | | | | | | | | | | | | | | 900 | 2.5 | 8.2 |
| | | | | | | | | | | | | | | | | | 1500 | 3.4 | 11.2 |
| | | | | | | | | | | | | | | | | | 1800 | 3.8 | 12.5 |

100% Sweep tested to 6 GHz.

Foamed Polyethylene Insulation • Black Flame Retardant PVC Jacket

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|------------------------------------------------------------------------------------|---------------------|------|------|-------|-------|------|----------------------------------------------------------|------|------|-------------------------------------------------------|------|-------|----|-----|------|------|------|-----|------|
| RF600 300V | 7977R new | NEC: | 500 | 152.4 | 89.5 | 40.7 | 5.5 AWG (solid) .176" CCA .53Ω/M' 1.7Ω/km | .455 | 11.6 | Duobond II + 85% TC Braid 1.8Ω/M' 5.9Ω/km | .590 | 14.99 | 50 | 85% | 24.6 | 80.6 | 3000 | 5.1 | 16.7 |
| | | CMR: | 1000 | 304.8 | 173.0 | 78.6 | | | | | | | | | | | 3500 | 5.6 | 18.4 |
|  | | | | | | | | | | | | | | | | | 4500 | 6.4 | 21.0 |
| | | | | | | | | | | | | | | | | | 5800 | 7.6 | 24.9 |
| | | | | | | | | | | | | | | | | | 6000 | 7.8 | 25.6 |
| | | | | | | | | | | | | | | | | | 2500 | 4.6 | 15.1 |

100% Sweep tested to 6 GHz.

Foamed Polyethylene Insulation • Water Blocking Gel • Black Polyethylene Jacket

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------|----------------------|------|-------|-------|------|------|----------------------------------------------------------|------|------|-------------------------------------------------------|------|-------|----|-----|------|------|------|------|------|
| RF600 300V | 7977WB new | | 500 | 152.4 | 74.0 | 33.6 | 5.5 AWG (solid) .176" CCA .53Ω/M' 1.7Ω/km | .455 | 11.6 | Duobond II + 85% TC Braid 1.8Ω/M' 5.9Ω/km | .590 | 14.99 | 50 | 85% | 24.6 | 80.6 | 3000 | 5.1 | 16.7 |
| | | 1000 | 304.8 | 146.0 | 66.9 | 3500 | | | | | | | | | | | 5.6 | 18.4 | |
|  | | | | | | | | | | | | | | | | | 4500 | 6.4 | 21.0 |
| | | | | | | | | | | | | | | | | | 5800 | 7.6 | 24.9 |
| | | | | | | | | | | | | | | | | | 6000 | 7.8 | 25.6 |
| | | | | | | | | | | | | | | | | | 2500 | 4.6 | 15.1 |

100% Sweep tested to 6 GHz.

CCA = Copper-covered Aluminum • DCR = DC Resistance • TC = Tinned Copper

For More Information:

www.belden.com

Belden Electronics Division Technical Support 1-800-BELDEN-1 or 1-800-BELDEN-3