

YJ55168 Coax – Series 6

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|  | <p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> |
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Description:

Series 6, 18 AWG 1.02mm solid bare copper covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II tape+ aluminum braid shield (60% coverage), PVC jacket

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|----------------------------------|
| Number of Coax | 1 |
| Total Number of Conductors | 1 |
| Series Type | Series 6 |
| AWG | 18 |
| Stranding | Solid |
| Conductor Diameter | 1.02 mm |
| Conductor Material | BCCS - Bare Copper Covered Steel |

INSULATION:

| | |
|---------------------|--------------------------------------|
| Insulation Material | Gas-injected FPE - Foam Polyethylene |
| Insulation Diameter | 4.57 mm |

OUTER SHIELD:

| | |
|----------------------------------|-------------|
| Outer Shield Material Trade Name | Duobond® II |
| Outer Shield Type | Tape/ Braid |
| Outer Shield Material: | |

| Layer Number | Type | Material | % Coverage (%) |
|--------------|-------|---|----------------|
| 1 | Tape | Bonded Aluminum Foil – Polyester Tape – Aluminum Foil | 100 |
| 2 | Braid | AL – Aluminum | 60 |

| | |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

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|--------------------------|---------|
| Overall Nominal Diameter | 6.86 mm |
|--------------------------|---------|

MECHANICAL CHARACTERISTICS:

Detailed Specifications & Technical Data



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|--------------------------------------|------------------|
| Operating Temperature Range (Non-UL) | - 40°C To + 80°C |
| Bulk Cable Weight | 42 kg/km |
| Max. Recommended Pulling Tension | 560 N |
| Min. Bend Radius (Install) | 50.8 mm |

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|-------------------------|----------|
| EU CE Mark (Y/N) | N |
| EU RoHS Compliant (Y/N) | Y |
| EU RoHS Compliance Date | Dec 2005 |

SWEEP TEST:

| | |
|---------------|---------------|
| Sweep Testing | 5 MHz – 1 GHz |
|---------------|---------------|

PLENUM/NON-PLENUM:

| | |
|---------------|-------|
| Plenum (Y/N) | N |
| Plenum Number | 9116P |

ELECTRICAL CHARACTERISTICS:

| | |
|--|---------------|
| Nom. Characteristics Impedance | 75 +/- 3 Ohms |
| Nom. Capacitance Conductor to Shield | 53.1 pF/m |
| Nom. Velocity of Propagation | 83 % |
| Nom. Delay | 3.93 ns/m |
| Nom. Conductor DC Resistance @ 20 Deg.C | 91.8 Ohms/km |
| Nom. Outer Shield DC Resistance @ 20 Deg.C | 29.5 Ohms/km |
| Min. Structural Return Loss (5~1000 MHz) | 20 dB |

Max. Attenuation:

| Frequency (MHz) | Max. Attenuation (dB/100m) | Frequency (MHz) | Max. Attenuation (dB/100m) |
|-----------------|----------------------------|-----------------|----------------------------|
| 5 | 2.23 | 400 | 13.80 |
| 55 | 5.25 | 450 | 14.66 |
| 211 | 9.90 | 550 | 16.23 |
| 270 | 11.28 | 750 | 19.11 |
| 300 | 11.93 | 870 | 20.66 |
| 350 | 12.89 | 1000 | 22.23 |

| | |
|------------------------|-----------|
| Max. Operating Voltage | 350 V RMS |
|------------------------|-----------|

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PUT-UPS AND COLORS:

| Item | Description | Put-Up* (metre) | Ship Weight (kg) | Jacket Color | Note** |
|-----------------|----------------------|-----------------|------------------|--------------|--------|
| YJ55168 009305M | #18 GIFHDLDPE SH PVC | 305M | 14 | White | C |
| YJ55168 010305M | #18 GIFHDLDPE SH PVC | 305M | 14 | Black | C |

* Other lengths available upon request.

** Crate Reel Put-up.

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