Belden® New Generation® Waterdog™ Cables

User-friendly Waterdog paired, multi-conductor and coaxial cables meet the water-resistant standards of UL 444, UL 13 and the TIA 455-82B Water Filtration Test and are offered with Belden’s industry-leading 10-year Warranty.

Belden now offers a complete line of water-resistant/direct burial cables called Waterdog. These cables allow building management systems to be connected seamlessly – indoors or out – above or below ground – from building to building or, for instance, from remote surveillance camera sites to indoor security monitors.

They are ideal for standard indoor/outdoor building management applications such as:

- Power limited fire alarm circuits
- Intercom systems
- Audio and sound systems
- Access control systems
- CCTV surveillance systems
- CATV and distributed video systems
- Background music and white noise

Best-in-Class Constructions

Four constructions typify the Waterdog cable line:

- A single Beldfoil-shielded twisted pair with solid or stranded 22 AWG tinned copper conductors, PVC insulation and an inner water-blocking tape and drain wire plus 1-, 2- or 4-conductors, an overall water-blocking tape and PVC jacket with rip cord (Ratings: CM, FT1)
- Unshielded and shielded multi-conductor cables with tinned copper (stranded) conductors, PVC insulation, an overall water-blocking tape and PVC jacket with rip cord (Ratings: CM, CMG, FT4, PLTC-ER, FPL). These codes are UL Exposed Run (ER) compliant. According to NEC 2005 these cables may be run without conduit or metal cladding for more than 6 feet – a use previously prohibited.
- Solid bare copper conductor RG-59 (20 AWG) and RG-6 (18 AWG) coaxial cables with foam polyolefin insulation, either a water-blocking tape over the braid shield, or a CoreGuard® grease flooded braid, and PVC jackets (Ratings: CM, FT1)
- Non-plenum composite cables (one coax plus a twisted pair in a Siamese configuration) – each component cable has a water-blocking tape. The coax has solid bare copper conductor, foam polyolefin insulation, bare copper braid shield and a PVC jacket; the pair has a stranded bare copper conductor, PVC insulation and jacket. (Ratings: CM, FT1)

Product Availability

Belden Waterdog cables are available from stock and are offered with Belden’s industry-leading 10-year Warranty.
**Waterdog™ Indoor/Outdoor Cables**

Water-resistant, Shielded Twisted Pair plus Conductor(s) — NEC CM and CEC, CM, FT1

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>No. of Pairs</th>
<th>AWG and No. of Cond.</th>
<th>Stranding</th>
<th>Standard Lengths</th>
<th>Standard Unit Wt.</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Nominal O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 AWG Solid or Stranded Tinned Copper Conductors • Beldfoil® Shield with Drain Wire and Inner Water-blocking tape (Pairs) Insulated Conductors as Indicated • Overall Water-blocking Tape</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>300V 105°C</td>
<td>5521G1</td>
<td>1 STP +1C (3/c)</td>
<td>solid</td>
<td>500 1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5501G1</td>
<td>1 STP +1C (3/c)</td>
<td>7x30</td>
<td>500 1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5522G1</td>
<td>1 STP +2/C (4/c)</td>
<td>solid</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5502G1</td>
<td>1 STP +2/C (4/c)</td>
<td>7x30</td>
<td>500 1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5504G1</td>
<td>1 STP +4/C (6/c)</td>
<td>7x30</td>
<td>500 1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5524G1</td>
<td>1 STP +4/C (6/c)</td>
<td>solid</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5584G1</td>
<td>1 STP +2 PR (6/c)</td>
<td>solid</td>
<td>1000</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>5541P1</td>
<td>2 STP (4/c)</td>
<td>7x30</td>
<td>1000</td>
</tr>
</tbody>
</table>

**Waterdog™ Indoor/Outdoor Cables**

Water-resistant Unshielded Multi-conductor — NEC CM and CEC CM FT1

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>AWG and No. of Cond.</th>
<th>Stranding</th>
<th>Standard Lengths</th>
<th>Standard Unit Wt.</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Nominal O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stranded Tinned Copper Conductors • Overall Water-blocking Tape</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>300V 105°C</td>
<td>5300U1</td>
<td>18/2</td>
<td>7x28</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>U-1000 1000</td>
</tr>
</tbody>
</table>

Print legend: Water-resistant Indoor / Outdoor / CM • Jacket sequentially marked at 2 ft. intervals
All cables have a 10-year Warranty
### Waterdog™ Indoor/Outdoor Cables
Shielded Multi-conductor — NEC CM and CEC CM FT1

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>AWG and No. of Cond.</th>
<th>Stranding</th>
<th>Standard Lengths</th>
<th>Standard Unit Wt.</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Nominal O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ft.</td>
<td>m</td>
<td>Lbs.</td>
<td>kg</td>
<td>Inch</td>
</tr>
<tr>
<td>PVC Insulation • Gray or Black PVC Jacket with Rip Cord</td>
<td></td>
<td></td>
<td></td>
<td>300V</td>
<td>Overall Water-blocking Tape</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Pair</td>
<td>5300F1</td>
<td>18/2</td>
<td>7x26</td>
<td>22/2</td>
<td>7x30</td>
<td>1000</td>
<td>305</td>
<td>17.0</td>
</tr>
<tr>
<td>1 Quad</td>
<td>5302F1</td>
<td>16/4</td>
<td>7x24</td>
<td>20/4</td>
<td>7x28</td>
<td>1000</td>
<td>305</td>
<td>20.0</td>
</tr>
</tbody>
</table>

Print legend: Water-resistant Indoor / Outdoor / CM • Jacket sequentially marked at 2 ft. intervals

### Waterdog PLTC and FPL Indoor/Outdoor Cables
Water-resistant Shielded Multi-conductor – NEC CMG, FPL, PLTC-ER and CEC CMG FT4

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>AWG and No. of Cond.</th>
<th>Stranding</th>
<th>Standard Lengths</th>
<th>Standard Unit Wt.</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Nominal O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ft.</td>
<td>m</td>
<td>Lbs.</td>
<td>kg</td>
<td>Inch</td>
</tr>
<tr>
<td>PVC Insulation • Black or Red PVC Jacket with Rip Cord</td>
<td></td>
<td></td>
<td></td>
<td>300V</td>
<td>Overall Water-blocking Tape</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Pair</td>
<td>5340F1</td>
<td>18/2</td>
<td>7x26</td>
<td>22/2</td>
<td>7x30</td>
<td>1000</td>
<td>305</td>
<td>17.0</td>
</tr>
<tr>
<td>1 Quad</td>
<td>5302F1</td>
<td>16/4</td>
<td>7x24</td>
<td>20/4</td>
<td>7x28</td>
<td>1000</td>
<td>305</td>
<td>20.0</td>
</tr>
</tbody>
</table>

Print legend: Water- and Sunlight-resistant, Direct Burial, Indoor/Outdoor, PLTC-ER, FPL, CMG, FT4 • Jacket sequentially marked at 2 ft. intervals

All cables have a 10-year Warranty
### Waterdog™ Indoor/Outdoor Cables

Water-resistant Coaxial and Coaxial Plus Twisted Pair — NEC CM and CEC CM FT1

<table>
<thead>
<tr>
<th>Part No.</th>
<th>AWG</th>
<th>Stranding and Conductor</th>
<th>Shield/Braid Coverage</th>
<th>Water-Blocking</th>
<th>Insulation Nominal OD</th>
<th>Nominal OD</th>
<th>Standard Lengths</th>
<th>Standard Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tape</td>
<td>Inch</td>
<td>mm</td>
<td>Inch</td>
<td>mm</td>
</tr>
</tbody>
</table>

#### CATV — Bare Copper Conductor • Aluminum Braid Plus 100% Foil Shield • Water-blocking Tape Over Braid or CoreGuard® Grease

**Foam Polyethylene Insulation • Black PVC Jacket**

- **5339W5**
  - CATV – RG-6/U Solid + 60% BC AL Braid
  - Part No. 5339W5
  - 18 .040” Duofoil Tape .180 4.57 .277 7.04 1000 305 31.0 14.1

- **5339W5**
  - CATV – RG-6/U Solid + 60% BC AL Braid
  - Part No. 5339W5
  - 18 .040” Duofoil CoreGuard .180 4.57 .270 6.86 1000 305 30.0 13.6

#### CCTV — Bare Copper Conductor • Bare Copper Braid Shield • Water-blocking Tape Over Braid

**Foam Polyethylene Insulation • Black PVC Jacket**

- **5439X5**
  - CCTV – RG-59/U Solid BC Braid
  - Part No. 5439X5
  - 18 .040” 95% Tape .180 4.57 .277 7.04 1000 305 38.0 17.2

- **5439X5**
  - CCTV – RG-59/U Solid BC Braid
  - Part No. 5439X5
  - 18 .040” 95% Tape .180 4.57 .277 7.04 1000 305 38.0 17.2

#### CCTV/MATV — Bare Copper Conductor • Tinned Copper Braid Shield Plus 100% Foil Shield • Water-blocking Tape Over Braid or CoreGuard® Grease

**Foam Polyethylene Insulation • Black PVC Jacket**

- **5439W5**
  - CCTV/MATV – RG-59/U Solid + 95% BC TC Braid
  - Part No. 5439W5
  - 18 .040” Duobond II CoreGuard .180 4.57 .277 7.04 1000 305 38.0 17.2

- **5439W5**
  - CCTV/MATV – RG-59/U Solid + 95% BC TC Braid
  - Part No. 5439W5
  - 18 .040” Duobond II CoreGuard .180 4.57 .277 7.04 1000 305 38.0 17.2

#### CCTV + Power — Coax: Solid Bare Copper Conductor • Foam PE Insulation • Bare Copper Braid Shield • Water-blocking Tape Over Braid Pair: Stranded Bare Copper • PVC Insulation • Overall Water-blocking Tape

**Black PVC Jackets • Pair Color-coded Black and Red**

- **5399X5**
  - CCTV – RG-6/U
  - Part No. 5399X5
  - 18(cx) Solid BC 95% BC unshielded Tape .180 4.57 .279 7.10 1000 305 68.0 30.8

- **5499X5**
  - CCTV – RG-59/U
  - Part No. 5499X5
  - 18(pr) 7/w BC unshielded Tape .068 1.73 .497 12.6

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**Legend:**
- BC = Bare Copper • PE = Polyethylene • TC = Tinned Copper
- Print legend: Water-resistant Indoor / Outdoor / CM • Jacket sequentially marked at 2 ft. intervals
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