

NP 204

**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 New Generation  
Waterdog Cables are Water  
and Moisture Resistant and  
UL Listed for a Range of  
Indoor/Outdoor and Direct  
Burial Installations**

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.


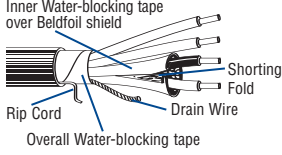
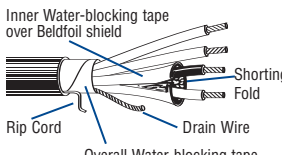
## Waterdog™ Indoor/Outdoor Cables

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

Description	Part No.	No. of Pairs and No. of Cond.	Stranding	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Outer Jacket		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm

**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

### PVC Insulation and PVC Jacket with Rip Cord

300V 105°C	 <b>5521G1</b>	1 STP +1C (3/c)	solid	500 1000	152 305	13.0 22.0	5.9 10.0	.010	.254	.025	.64	.212	5.38
										Jacket Color: Gray or Black			
<b>Solid Conductor</b> Inner Water-blocking tape over Beldfoil shield	<b>5501G1</b>	1 STP +1C (3/c)	7x30	500 1000	152 305	12.0 25.0	5.4 11.4	.010	.254	.025	.64	.222	5.64
										Jacket Color: Gray or Black			
	<b>5522G1</b>	1 STP +2/C (4/c)	solid	1000	305	27.0	12.3	.010	.254	.025	.64	.224	5.69
										Jacket Color: Gray or Black			
	<b>5502G1</b>	1 STP +2/C (4/c)	7x30	500 1000	152 305	14.0 29.0	6.4 13.2	.010	.254	.025	.64	.240	6.1
										Jacket Color: Gray or Black			
<b>Stranded Conductor</b> Inner Water-blocking tape over Beldfoil shield	<b>5504G1</b>	1 STP +4/C (6/c)	7x30	500 1000	152 305	18.5 37.0	8.4 16.8	.010	.254	.025	.64	.240	6.10
										Jacket Color: Gray or Black			
	<b>5524G1</b>	1 STP +4C (6/c)	solid	1000	305	31.0	14.1	.010	.254	.025	.64	.244	6.20
										Jacket Color: Black			
	<b>5584G1</b>	1 STP +2 PR (6/c)	solid	1000	305	36.0	16.3	.010	.254	.025	.64	.283	7.2
										Jacket Color: Black			
	<b>5541P1</b>	2 STP (4/c)	7x30	1000	305	38.0	17.3	.010	.254	.025	.64	.328	8.30
										Jacket Color: Black			

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


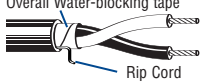
## Waterdog™ Indoor/Outdoor Cables

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

Description	Part No.	AWG and No. of Cond.	Stranding	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Outer Jacket		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm

**Stranded Tinned Copper Conductors** • Overall Water-blocking Tape

### PVC Insulation • Gray or Black PVC Jacket with Rip Cord

300V 105°C	 <b>5300U1</b>	18/2	7x26	U-500 500 U-1000 1000	U-152 152 U-305 305	12.0 13.5 22.0 24.0	5.5 6.1 10.0 10.9	.010	.254	.025	.64	.207	5.26
													

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

All cables have a 10-year Warranty



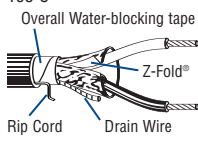

## Waterdog™ Indoor/Outdoor Cables

### Shielded Multi-conductor — NEC CM and CEC CM FT1

Description	Part No.	AWG and No. of Cond.	Stranding	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Outer Jacket		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm

**Stranded Tinned Copper Conductors** • Overall Beldfoil® Shield and Drain Wire • Overall Water-blocking Tape

#### PVC Insulation • Gray or Black PVC Jacket with Rip Cord

300V 105°C 		<b>5500F1</b>	22/2	7x30	1000	305	17.0	7.7	.010	.254	.025	.64	.192	4.88
		<b>5400F1</b>	20/2	7x28	1000	305	21.0	9.5	.010	.254	.025	.64	.206	5.23
		<b>5300F1</b>	18/2	7x26	1000	305	30.0	13.6	.010	.254	.025	.64	.222	5.64

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

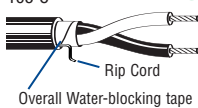

## Waterdog PLTC and FPL Indoor/Outdoor Cables

Water-blocked Unshielded Multi-conductor – NEC CMG, FPL, PLTC-ER and CEC CMG FT4

Description	Part No.	AWG and No. of Cond.	Stranding	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Outer Jacket		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm

**Stranded Tinned Copper Conductors** • Overall Water-blocking Tape

#### PVC insulation • Black or Red PVC Jacket with Rip Cord

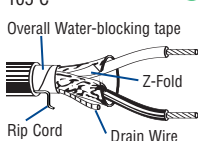

300V 105°C 		1 Pair <b>5340U1</b>	18/2	7x26	1000	305	30	13.7	.010	.254	.025	.64	.207	5.29
		1 Quad <b>5302U1</b>	18/4	7x26	1000	305	38	17.3	.010	.254	.025	.64	.235	5.97
		1 Pair <b>5240U1</b>	16/2	7x24	1000	305	32	14.6	.010	.254	.025	.64	.231	5.87
		1 Quad <b>5202U1</b>	16/4	7x24	1000	305	54	24.6	.010	.254	.025	.64	.263	6.68
		1 Pair <b>5140U1</b>	14/2	19x27	1000	305	48	21.8	.010	.254	.025	.64	.281	7.13
		1 Quad <b>5102U1</b>	14/4	19x27	1000	305	78	35.5	.010	.254	.025	.64	.323	8.20

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

## Water-blocked Shielded Multi-conductor – NEC CMG, FPL, PLTC-ER and CEC CMG FT4

**Stranded Tinned Copper Conductors** • Overall Beldfoil Shield and Drain Wire • Overall Water-blocking Tape

#### PVC insulation • Black or Red PVC Jacket with Rip Cord

300V 105°C 		1 Pair <b>5340F1</b>	18/2	7x26	1000	305	35	15.9	.010	.254	.025	.64	.211	5.36
		1 Quad <b>5302F1</b>	18/4	7x26	1000	305	43	19.5	.010	.254	.025	.64	.239	6.07
		1 Pair <b>5240F1</b>	16/2	7x24	1000	305	39	17.7	.010	.254	.025	.64	.235	5.67
		1 Quad <b>5202F1</b>	16/4	7x24	1000	305	61	27.7	.010	.254	.025	.64	.267	6.78
		1 Pair <b>5140F1</b>	14/2	19x27	1000	305	59	26.8	.010	.254	.025	.64	.285	7.24
		1 Quad <b>5102F1</b>	14/4	19x27	1000	305	85	38.6	.010	.254	.025	.64	.327	8.31

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


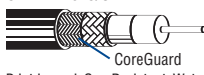
All cables have a 10-year Warranty

## Waterdog™ Indoor/Outdoor Cables

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

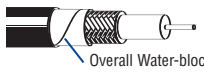
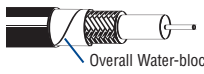
Part No.	AWG	Stranding and Conductor	Shield/Braid Coverage	Water-Blocking	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
					Inch	mm	Inch	mm	Ft.	mm	Lbs.	kg

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

Foam Polyethylene Insulation • Black PVC Jacket														
<b>5339V5</b> CATV-RG-6/U	18	.040" Solid BC	Duofoil + 60% AL Braid	Tape	.180	4.57	.277	7.04	1000	305	42.0	19.0		
														
<b>5339W5</b> CATV – RG-6/U	18	.040" Solid BC	Duofoil + 60% AL Braid	CoreGuard	.180	4.57	.270	6.86	1000 U1000	305 U305	30.0 30.0	13.6 13.6		
									500 U500	152 U152	15.5 15.5	7.0 7.0		


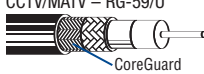
Print legend: Sun Resistant, Water Resistant, Indoor / Outdoor, CCTV, CM • Jacket sequentially marked at 2 ft. intervals

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

Foam Polyethylene Insulation • Black PVC Jacket														
<b>5439X5</b> CCTV-RG-59/U	20	.032" Solid BC	95% BC Braid	Tape	.145	3.68	.244	6.2	1000	305	34.0	15.5		
														
<b>5339X5</b> CCTV – RG-6/U	18	.040" Solid BC	95% BC Braid	Tape	.180	4.57	.277	7.04	1000	305	42.0	19.0		
														

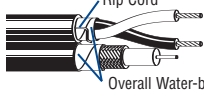
Print legend: Sun Resistant, Water Resistant, Indoor / Outdoor, CCTV, CM • Jacket sequentially marked at 2 ft. intervals

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

Foam Polyethylene Insulation • Black PVC Jacket														
<b>5439V5</b> CCTV/MATV – RG-59/U	20	.032" Solid BC	Duobond II + 95% TC Braid	Tape	.145	3.68	.239	6.07	1000	305	30.0	13.6		
														
<b>5439W5</b> CCTV/MATV – RG-59/U	20	.032" Solid BC	Duobond + 95% TC Braid	CoreGuard	.145	3.68	.236	6.07	1000 U1000	305 U305	34.0 34.0	15.5 15.5		
									500 U500	152 U152	17.5 17.5	8.0 8.0		

Print legend: Sun Resistant, Water Resistant, Indoor / Outdoor, CCTV, CM • Jacket sequentially marked at 2 ft. intervals

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

Black PVC Jackets • Pair Color-coded Black and Red														
<b>5399X5</b> CCTV – RG-6/U	18(cx) 16(pr)	Solid BC 7/w BC	95% BC unshielded	Tape Tape	.180 .080	4.57 2.03	.279 X .549	7.10 X 13.95	1000	305	69.0	31.3		
														
<b>5499X5</b> CCTV – RG-59/U	20(cx) 18(pr)	Solid BC 7/w BC	95% BC unshielded	Tape Tape	.145 .068	3.68 1.73	.239 X .451	6.07 X 11.46	1000	305	58.0	26.4		

Print legend: Sun Resistant, Water Resistant, Indoor / Outdoor, CCTV, CM • Jacket sequentially marked at 2 ft. intervals

BC= Bare Copper • TC = Tinned Copper  
 All cables have a 10-Year Warranty