

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


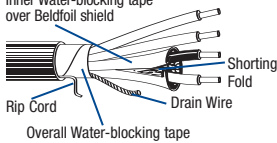
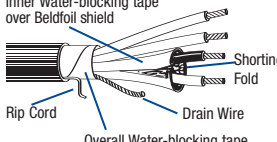
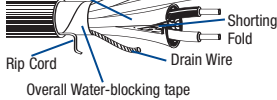
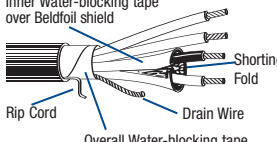
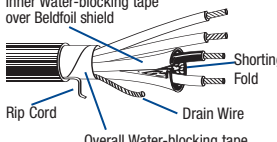
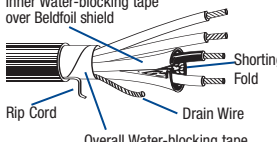
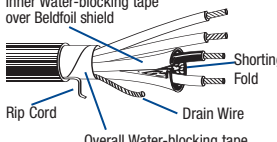
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Waterdog™ Indoor/Outdoor Cables

Water-resistant, 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		Jacket Thickness		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	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


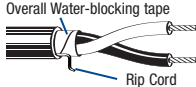
PVC Insulation and PVC Jacket with Rip Cord														
300V 105°C		5521G1	1 STP +1C (3/c)	solid	500	152	13.0	5.9	.010	.254	.025	.64	.212	5.38
					1000	305	22.0	10.0	Jacket Color: Gray or Black					
Solid Conductor Inner Water-blocking tape over Beldfoil shield		5501G1	1 STP +1C (3/c)	7x30	500	152	12.0	5.4	.010	.254	.025	.64	.222	5.64
					1000	305	25.0	11.4	Jacket Color: Gray or Black					
Stranded Conductor Inner Water-blocking tape over Beldfoil shield		5522G1	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									
Solid Conductor Inner Water-blocking tape over Beldfoil shield		5502G1	1 STP +2/C (4/c)	7x30	500	152	14.0	6.4	.010	.254	.025	.64	.240	6.10
					1000	305	29.0	13.2	Jacket Color: Gray or Black					
Stranded Conductor Inner Water-blocking tape over Beldfoil shield		5504G1	1 STP +4/C (6/c)	7x30	500	152	18.5	8.4	.010	.254	.025	.64	.268	6.81
					1000	305	37.0	16.8	Jacket Color: Gray or Black					
Stranded Conductor Inner Water-blocking tape over Beldfoil shield		5524G1	1 STP +4C (6/c)	solid	1000	305	31.0	14.1	.010	.254	.025	.64	.244	6.20
					Jacket Color: Black									
Stranded Conductor Inner Water-blocking tape over Beldfoil shield		5584G1	1 STP +2 PR (6/c)	solid	1000	305	36.0	16.3	.010	.254	.025	.64	.283	7.20
					Jacket Color: Black									
Stranded Conductor Inner Water-blocking tape over Beldfoil shield		5541P1	2 STP (4/c)	7x30	1000	305	38.0	17.3	.010	.254	.025	.64	.328	8.30
					Jacket Color: Black									

Waterdog™ Indoor/Outdoor Cables

Water-resistant 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		Jacket Thickness		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

Stranded Tinned Copper Conductors • Overall Water-blocking Tape

PVC Insulation • Gray or Black PVC Jacket with Rip Cord														
300V 105°C		5300U1	18/2	7x26	U-500	U-152	12.0	5.5	.010	.254	.025	.64	.207	5.26
					500	152	13.5	6.1	Overall Water-blocking tape					
Stranded Tinned Copper Conductors Overall Water-blocking tape					U-1000	U-305	22.0	10.0	Rip Cord					
					1000	305	24.0	10.9						

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

Description	Part No.	AWG and No. of Cond.	Stranding	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Jacket Thickness		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	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 		5500F1	22/2	7x30	1000	305	17.0	7.7	.010	.254	.025	.64	.192	4.88
		5400F1	20/2	7x28	1000	305	21.0	9.5	.010	.254	.025	.64	.206	5.23
		5300F1	18/2	7x26	1000	305	30.0	13.6	.010	.254	.025	.64	.222	5.64

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

Waterdog PLTC and FPL Indoor/Outdoor Cables

Water-resistant 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		Jacket Thickness		Nominal O.D.	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	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 5340U1	18/2	7x26	1000	305	30	13.7	.010	.254	.025	.64	.227	5.77
		1 Quad 5302U1	18/4	7x26	1000	305	38	17.3	.010	.254	.025	.64	.254	6.45
		1 Pair 5240U1	16/2	7x24	1000	305	32	14.6	.010	.254	.025	.64	.249	6.32
		1 Quad 5202U1	16/4	7x24	1000	305	54	24.6	.010	.254	.025	.64	.291	7.39
		1 Pair 5140U1	14/2	19x27	1000	305	48	21.8	.010	.254	.025	.64	.307	7.80
		1 Quad 5102U1	14/4	19x27	1000	305	78	35.5	.010	.254	.025	.64	.341	8.66

Print legend: Water- and Sunlight-resistant, Direct Burial, Indoor/Outdoor, PLTC-ER, FPL, CMG, FT4 • 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

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

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 5340F1	18/2	7x26	1000	305	35	15.9	.010	.254	.025	.64	.232	5.89
		1 Quad 5302F1	18/4	7x26	1000	305	43	19.5	.010	.254	.025	.64	.255	6.48
		1 Pair 5240F1	16/2	7x24	1000	305	39	17.7	.010	.254	.025	.64	.254	6.45
		1 Quad 5202F1	16/4	7x24	1000	305	61	27.7	.010	.254	.025	.64	.295	7.49
		1 Pair 5140F1	14/2	19x27	1000	305	59	26.8	.010	.254	.025	.64	.314	7.98

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


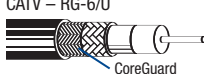
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Waterdog™ Indoor/Outdoor Cables

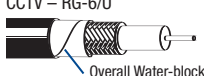
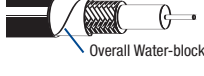
Water-resistant Coaxial and Coaxial Plus Twisted Pair – NEC CM and CEC CM FT1

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


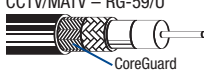
CATV – Bare Copper Conductor • Aluminum Braid Plus 100% Foil Shield • Water-blocking Tape Over Braid or CoreGuard® Grease

Foam Polythylene Insulation • Black PVC Jacket													
5339V5 CATV-RG-6/U 	18	.040" Solid BC	Dufoil + 60% AL Braid	Tape	.180	4.57	.277	7.04	1000	305	31.0	14.1	
5339W5 CATV – RG-6/U 	18	.040" Solid BC	Dufoil + 60% AL Braid	CoreGuard	.180	4.57	.270	6.86	1000	305	30.0	13.6	
									U1000	U305	30.0	13.6	
									500	152	15.0	6.8	
									U500	U152	15.0	6.8	

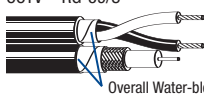
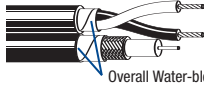
CCTV – Bare Copper Conductor • Bare Copper Braid Shield • Water-blocking Tape Over Braid

Foam Polythylene Insulation • Black PVC Jacket													
5439X5 CCTV-RG-59/U 	20	.032" Solid BC	95% BC Braid	Tape	.145	3.68	.244	6.2	1000	305	30.0	13.6	
5339X5 CCTV – RG-6/U 	18	.040" Solid BC	95% BC Braid	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 Polythylene Insulation • Black PVC Jacket													
5439V5 CCTV/MATV – RG-59/U 	20	.032" Solid BC	Duobond II + 95% TC Braid	Tape	.145	3.68	.239	6.07	1000	305	29.0	13.2	
5439W5 CCTV/MATV – RG-59/U 	20	.032" Solid BC	Duobond + 95% TC Braid	CoreGuard	.145	3.68	.236	6.07	1000	305	24.0	10.9	
									U1000	U305	24.0	10.9	
									500	152	12.0	5.4	

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 	18(cx)	Solid BC	95% BC	Tape	.180	4.57	.279	7.10	1000	305	68.0	30.8	
									16(pr)	7/w BC	unshielded	Tape	.077
5499X5 CCTV – RG-59/U 	20(cx)	Solid BC	95% BC	Tape	.145	3.68	.249	6.32	1000	305	59.0	26.8	
									18(pr)	7/w BC	unshielded	Tape	.068

BC= Bare Copper • PE = Polyethylene • TC = Tinned Copper
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