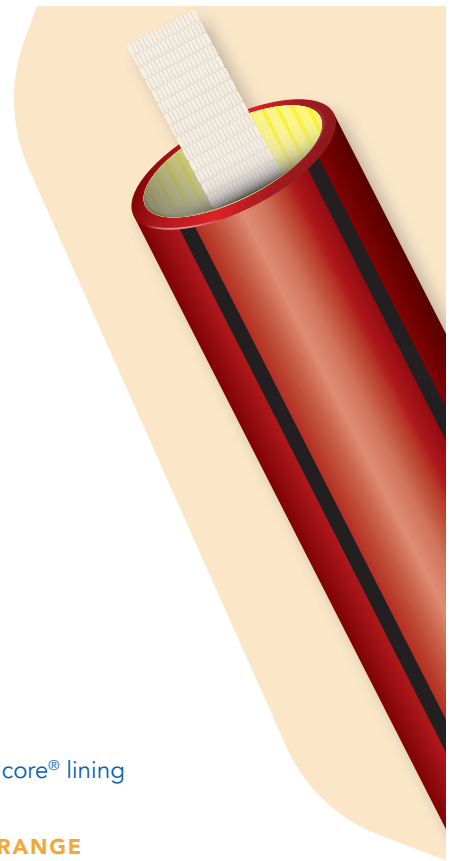


SPECIALTY

POWERGUARD®

- Available in 16mm (1/2") to 129mm (5"). Comes standard in long continuous lengths on reels or coils, 155mm (6") is available in trade lengths 3.048m (10'), 6.096m (20'), 12.192m (40'), & 15.24m (50')
- Manufactured from flexible CSA listed HDPE resin, makes gradual bends without special equipment or added accessories
- Internal longitudinal ribbing reduces friction during cable placement
- SuperSilicore® inner wall eliminates the need for wet lubricants during cable pulling
- Excellent low temperature properties allow installation in cold climates
- Outstanding long term power cable protection from shifting ground, rock, and root impingement
- Provides a permanent pathway, simplifies future cable repairs or replacement
- Greatly reduces the number of coupled joints in a continuous installation, reducing the possibility of infiltration of native soil, backfill and water
- Available with pre-installed pull tape from 500lb to 6000lb strength
- Standard configuration is red with four black stripes, longitudinal ribbing and SuperSilicore® lining



INSTALLATION TYPES

- Plow
- Trench
- Directional Bore
- Open Trench

STANDARD COLOURS



OPTIONAL COLOURS



WALL TYPES

- DR-9
- DR-11
- DR-13.5
- SCH-40
- SCH-80

SIZE RANGE

16mm (0.50")	63mm (2.50")
21mm (0.75")	78mm (3.00")
27mm (1.00")	103mm (4.00")
35mm (1.25")	129mm (5.00")
41mm (1.50")	155mm (6.00")
53mm (2.00")	

FEATURES

STANDARD

METER MARKINGS Sequential foot or meter markings. Custom print streams available.

SPECIFICATIONS PowerGuard® is registered to standard CSA C22.2 no.327-18 HDPE Conduit, conductors in conduit, fittings in sizes 16mm (1/2") to 155mm (6") & UL 651a and called out in the Canadian Electrical Code.

SUPERSILICORE® is co-extruded with the tough HDPE jacket creating a super slick permanent lining.

OPTIONS

PREINSTALLED TAPE Factory pre-installed Bull-Line™ Pull Tape with EVEN-LOAD™, ensures extra slack at any access point throughout the reel. Available 500lb - 6,000lb tensile strength or locatable.

PREINSTALLED CABLE Factory pre-installed cable, Cable-in-Conduit (CIC), provides one-step placement of the cable and duct in the field.

POWERGUARD® is available in custom colours, external stripe options, and special markings upon request.



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POWERGUARD SPECIFICATIONS

WALL TYPE	PIPE SIZE	AVG OD (MM/IN)	MIN WALL (MM/IN)	AVG ID (MM/IN)	BEND RADIUS (MM/IN)	WEIGHT (#/FT)
DR-9	16mm / 1/2"	21.34 / 0.840	2.36 / 0.093	16.10 / 0.634	203.2 / 8	0.098
	21mm / 3/4"	26.67 / 1.050	2.97 / 0.117	20.22 / 0.796	254.0 / 10	0.152
	27mm / 1"	33.40 / 1.315	3.71 / 0.146	25.48 / 1.003	330.2 / 13	0.234
	35mm / 1 1/4"	42.16 / 1.660	4.67 / 0.184	32.26 / 1.270	431.8 / 17	0.370
	41mm / 1 1/2"	48.26 / 1.900	5.36 / 0.211	36.91 / 1.453	482.6 / 19	0.485
	53mm / 2"	60.33 / 2.375	6.71 / 0.264	46.10 / 1.815	609.6 / 24	0.759
	63mm / 2 1/2"	73.03 / 2.875	8.10 / 0.319	55.85 / 2.199	736.6 / 29	1.110
	78mm / 3"	88.90 / 3.500	9.88 / 0.389	67.95 / 2.675	990.6 / 39	1.648
	103mm / 4"	114.30 / 4.500	12.70 / 0.500	87.38 / 3.440	1270.0 / 50	2.723
	129mm / 5"	141.30 / 5.563	15.70 / 0.618	108.03 / 4.253	1549.4 / 61	4.161
	155mm / 6"	168.28 / 6.625	18.69 / 0.736	128.65 / 5.065	1854.2 / 73	5.901
DR-11	16mm / 1/2"	21.34 / 0.840	1.93 / 0.076	17.48 / 0.688	203.2 / 8	0.084
	21mm / 3/4"	26.67 / 1.050	2.41 / 0.095	21.34 / 0.840	254.0 / 10	0.128
	27mm / 1"	33.40 / 1.315	3.05 / 0.120	26.80 / 1.055	330.2 / 13	0.199
	35mm / 1 1/4"	42.16 / 1.660	3.84 / 0.151	33.99 / 1.338	431.8 / 17	0.312
	41mm / 1 1/2"	48.26 / 1.900	4.39 / 0.173	38.94 / 1.533	482.6 / 19	0.408
	53mm / 2"	60.33 / 2.375	5.49 / 0.216	48.69 / 1.917	609.6 / 24	0.636
	63mm / 2 1/2"	73.03 / 2.875	6.63 / 0.261	58.98 / 2.322	736.6 / 29	0.930
	78mm / 3"	88.90 / 3.500	8.08 / 0.318	71.78 / 2.826	990.6 / 39	1.380
	103mm / 4"	114.30 / 4.500	10.39 / 0.409	92.28 / 3.633	1270.0 / 50	2.282
	129mm / 5"	141.30 / 5.563	12.85 / 0.506	114.05 / 4.490	1549.4 / 61	3.490
	155mm / 6"	168.28 / 6.625	15.29 / 0.602	135.87 / 5.349	1854.2 / 73	4.944
DR-13.5	16mm / 1/2"	21.34 / 0.840	1.57 / 0.062	17.68 / 0.696	203.2 / 8	0.072
	21mm / 3/4"	26.67 / 1.050	1.98 / 0.078	22.20 / 0.874	254.0 / 10	0.110
	27mm / 1"	33.40 / 1.315	2.46 / 0.097	27.97 / 1.101	330.2 / 13	0.167
	35mm / 1 1/4"	42.16 / 1.660	3.12 / 0.123	35.41 / 1.394	431.8 / 17	0.263
	41mm / 1 1/2"	48.26 / 1.900	3.58 / 0.141	40.59 / 1.598	482.6 / 19	0.342
	53mm / 2"	60.33 / 2.375	4.47 / 0.176	50.85 / 2.002	609.6 / 24	0.528
	63mm / 2 1/2"	73.03 / 2.875	5.41 / 0.213	61.54 / 2.423	736.6 / 29	0.775
	78mm / 3"	88.90 / 3.500	6.58 / 0.259	74.96 / 2.951	990.6 / 39	1.146
	103mm / 4"	114.30 / 4.500	8.46 / 0.333	96.37 / 3.794	1270.0 / 50	1.895
	129mm / 5"	141.30 / 5.563	10.46 / 0.412	119.13 / 4.690	1549.4 / 61	2.896
	155mm / 6"	168.28 / 6.625	12.47 / 0.491	141.83 / 5.584	1854.2 / 73	4.112



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POWERGUARD SPECIFICATIONS

WALL TYPE	PIPE SIZE	AVG OD (MM/IN)	MIN WALL (MM/IN)	AVG ID (MM/IN)	BEND RADIUS (MM/IN)	WEIGHT (#/FT)
SCH-40	16mm / 1/2"	21.34 / 0.840	2.77 / 0.109	15.28 / 0.602	203.2 / 8	0.111
	21mm / 3/4"	26.67 / 1.050	2.87 / 0.113	20.41 / 0.804	254.0 / 10	0.148
	27mm / 1"	33.40 / 1.315	3.38 / 0.133	26.12 / 1.029	330.2 / 13	0.217
	35mm / 1 1/4"	42.16 / 1.660	3.56 / 0.140	34.55 / 1.360	431.8 / 17	0.293
	41mm / 1 1/2"	48.26 / 1.900	3.68 / 0.145	40.38 / 1.590	482.6 / 19	0.350
	53mm / 2"	60.33 / 2.375	3.91 / 0.154	51.99 / 2.047	609.6 / 24	0.469
	63mm / 2 1/2"	73.03 / 2.875	5.16 / 0.203	62.10 / 2.445	736.6 / 29	0.740
	78mm / 3"	88.90 / 3.500	5.49 / 0.216	77.27 / 3.042	990.6 / 39	0.969
	103mm / 4"	114.30 / 4.500	6.02 / 0.237	101.55 / 3.998	1270.0 / 50	1.380
	129mm / 5"	141.30 / 5.563	6.55 / 0.258	127.41 / 5.016	1549.4 / 61	1.872
	155mm / 6"	168.28 / 6.625	7.11 / 0.280	153.19 / 6.031	1854.2 / 73	2.432
SCH-80	16mm / 1/2"	21.34 / 0.840	3.73 / 0.147	13.36 / 0.526	203.2 / 8	0.139
	21mm / 3/4"	26.67 / 1.050	3.91 / 0.154	18.39 / 0.722	254.0 / 10	0.188
	27mm / 1"	33.40 / 1.315	4.55 / 0.179	23.77 / 0.936	330.2 / 13	0.276
	35mm / 1 1/4"	42.16 / 1.660	4.85 / 0.191	31.88 / 1.255	431.8 / 17	0.382
	41mm / 1 1/2"	48.26 / 1.900	5.08 / 0.200	37.49 / 1.476	482.6 / 19	0.463
	53mm / 2"	60.33 / 2.375	5.54 / 0.218	48.59 / 1.913	609.6 / 24	0.641
	63mm / 2 1/2"	73.03 / 2.875	7.01 / 0.276	58.17 / 2.290	736.6 / 29	0.978
	78mm / 3"	88.90 / 3.500	7.62 / 0.300	72.75 / 2.864	990.6 / 39	1.310
	103mm / 4"	114.30 / 4.500	8.56 / 0.337	96.16 / 3.786	1270.0 / 50	1.914
	129mm / 5"	141.30 / 5.563	9.53 / 0.375	121.11 / 4.768	1549.4 / 61	2.657
	155mm / 6"	168.28 / 6.625	10.97 / 0.432	145.01 / 5.709	1854.2 / 73	3.656

SMOOTH OUT/RIBBED IN NOTES:

1. Bend Radius 1/2" through 2 1/2" Supported Bend Radius 10 times the OD Unsupported Bend Radius 20 times the OD 3" through 6" Supported Bend Radius 11 times the OD Unsupported Bend Radius 22 times the OD
2. During cable placement, large sweeping bends are recommended over tighter bends. Pre-formed sweeps are recommended for conduit sizes 8" through 16" diameters.
3. SWPS (Safe Working Pull Strength) is calculated using a 25% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and average wall thickness.
4. Average internal rib height is 0.020" in addition to the MIN and AVG ID's and have been calculated in the listed values.
5. Add 0.016 #/ft for ribbed products 1 1/2" and less. For ribbed products 2" and larger, add 0.025 #/ft.



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