

**SPECIALTY**

# POWERGUARD® HYBRID

- A PowerGuard® configuration combining (1) 53mm (2") SCH 40 HDPE conduit with (2) 18/14mm MicroDucts
- Manufactured from flexible CSA listed and standard HDPE resin, makes gradual bends without special equipment or added accessories
- Internal longitudinal ribbing reduces friction during cable placement
- SILICORE® ULF inner wall eliminates the need for wet lubricants during cable pulling
- Excellent low-temperature properties allow installation in cold climates
- Outstanding long-term cable protection from shifting ground, rock, and root impingement
- Multiple pathways for electrical and fibre for one installation cost, allows flexibility and future growth
- 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 Bull-Line Pull Tape from 500lb to 6000lb tensile strength
- Available with pre-installed 20 AWG insulated tracer wire



**INSTALLATION TYPES**

Plow  
Open Trench  
Directional Bore

**STANDARD COLOURS**

Oversheath ■  
Conduit ■■  
MicroDuct ■■

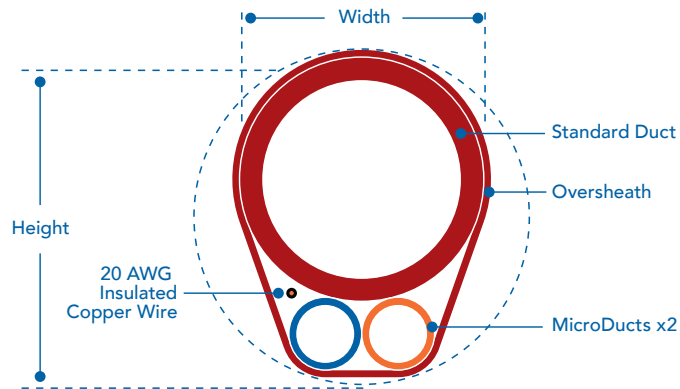
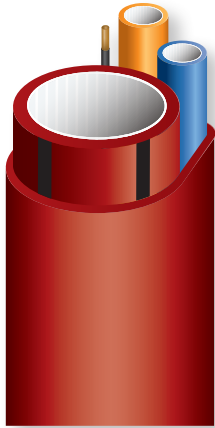
**CONFIGURATIONS**

53mm (2") SCH 40 (x1) +  
18/14mm MicroDucts (x2)

**FEATURES**

<b>STANDARD</b>
<b>METER MARKINGS</b> Sequential foot or meter markings. Custom print streams available.
<b>SPECIFICATIONS</b> PowerGuard® is registered to standard CSA C22.2 no.327-18 HDPE Conduit, UL 651a and called out in the Canadian Electrical Code.
<b>CO-EXTRUDED LINING</b> SILICORE® ULF (Ultra-Low Friction) is co-extruded inside the HDPE wall creating a slick, permanent, interior lining. With a coefficient of friction 60% lower than standard HDPE conduit without the aid of wet lubricants, SILICORE® ULF exhibits no loss in performance over time or in extreme temperature conditions.
<b>OPTIONS</b>
<b>PRE-INSTALLED TAPE</b> 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.
<b>CABLE-IN-CONDUIT (CIC) AVAILABLE</b> CIC provides pre-installed cable in the factory and one-step simultaneous placement of the cable and duct in the field. The duct is extruded around the cable during manufacturing.
<b>POWERGUARD® HYBRID</b> comes in a standard configuration, but is available in different colours, external stripe colours and special markings.

## POWERGUARD HYBRID TECHNICAL SPECIFICATIONS



SPECS FOR	DUCT TYPE	MAX OD (MM/IN)	WIDTH (MM/IN)	HEIGHT (MM/IN)	OVER-SHEATH (MM/IN)	WEIGHT (LB/FT)	BEND RADIUS SUP* (MM/IN)	BEND RADIUS UNSUP* (MM/IN)	SWPS†
	53MM (2") SCH40 + 18/14MM	82.2/ 3.24	63.9/ 2.51	80.5/ 3.17	1.78/ 0.070	0.859	1,194/ 47	2,007/ 79	4,676

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## HDPE DUCT TECHNICAL SPECIFICATIONS

SPECS FOR	DUCT TYPE	OD (MM/IN)	AVG ID (MM/IN)
	53MM (2") SCH40	60.33 / 2.375	51.99 / 2.047

## MICRODUCT TECHNICAL SPECIFICATIONS

SPECS FOR	MICRODUCT SIZE	OD (MM/IN)	MIN ID (MM/IN)
	18/14MM	18/0.71	13.6/0.54