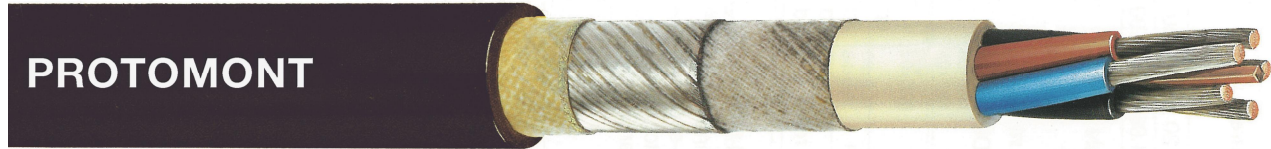


## PROTOMONT SCREENED

**SIEMENS**

Flexible cables

### Heavy Duty / Extra Heavy Duty Flexible Cables



#### APPLICATION

Designed as a heavy duty overall screened flexible for dry, damp and wet environments. Because of the black flame retardant PCP sheath PROTOMONT is also suitable for areas subject to fire hazard and hazardous locations. Typical applications are for workshops, construction areas, mine sites, etc., as power supplies for welders, flexible pump cables, generator supply. Submersible to 500 meters.

#### OPERATING TEMPERATURE

- Minimum permissible ambient temperature -40°C
- Maximum permissible conductor temperature 90°C
- Maximum permissible short circuit temperature 250°C
- Minimum ambient temperature for optimum

#### CURRENT CARRYING CAPACITY

Current ratings are based on continuous operation at an ambient temperature of 40°C. At other temperatures these values must be converted using the following table.

°C	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Factor	1.26	1.20	1.15	1.1	1.05	1	0.94	0.88	0.81	0.73	0.65	0.57	0.47	0.34

#### TENSILE STRENGTH

The maximum allowable tensile stress is 15N/mm<sup>2</sup>. This ensures no conductor damage will occur in operation.

#### CORE COLOUR IDENTIFICATION

- 4 Core blue, brown, black, green/yellow
- 5 Core red, white, blue, black, green/yellow

#### DESIGN

PROTOMONT heavy duty elastomer flexible cables are designed for aggressive environments in open cut mining and quarries, industry and construction sites as well as agricultural use where heavy mechanical stresses occur. PROTOMONT cables consist of finely stranded tinned copper conductors laid up to provide a flexible design. R-EP-90 elastomer insulation enables improved current carrying capacities and a specially compounded XHD-PCP-90 outer sheath resists hard and abrasive surfaces. The cable is in accordance with the Australian Standard AS 1125, AS 3116, AS 3191 and DIN VDE 0250 pt 812 for NSSHoeu. Flame retardant to VDE and MSHA.

#### VOLTAGE RATING

- Rated Voltage:  $U_0/U = 0.6/kV$
- Maximum operating voltages in:
  - 3 phase AC operation  $U_0/U = 0.7/1.15kV$
  - DC operation  $U_0/U = 0.9/1.73kV$
- AC test voltage = 2.5kV
- \* The cable is designated 450/750V in accordance with VDE/IEC and meets or exceeds the Australian Standard AS 3116 for the voltage rating of 0.6/1kV.

#### MINIMUM BENDING RADII

The following minimum bending radii should be observed to ensure operating reliability.

- For fixed installation 4 x cable diameter
- When freely flexing 5 x cable diameter

**Note:** For force guided and reeling applications please refer to Siemens CORDAFLEX (K) information.

### 5 Core Overall XHD PROTOMONT SCREENED

Part No.	Number of Cores x Conductor Size	Approx. No of Strands x Max. Strand Diameter	Diameter of each Conductor (Approx)	Cable Overall Diameter	Cable Weight	Current Carrying Capacity
	mm <sup>2</sup>	mm	mm	mm	kg/km	A
5DL2 808	5 x 1.5/1.5	30 x 0.26	1.8	15.4	375	19
5DL2 810	5 x 2.5/2.5	50 x 0.26	2.6	18.4	540	26
5DL2 811	5 x 4/4	56 x 0.31	3.2	20.5	680	35
5DL2 812	5 x 6/6	84 x 0.31	3.9	23.1	910	45
5DL2 813	5 x 10/10	80 x 0.41	5.1	27.2	1320	62
5DL2 814	5 x 16/16	126 x 0.41	6.3	32.4	1955	83
5DL2 815	5 x 25/25	196 x 0.41	8	39.1	2675	110