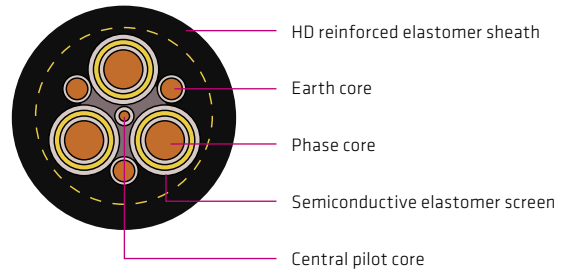


Type 441 1.1 kV



Cable description

Class 2 semiconductive screened cable for general use.

Application

Suitable for trailing and most reeling applications and is used for general purpose supply.

Approvals

AS/NZS 2802

Behaviour in flame and fire

Fire retardant

Temperature range

Maximum operating temperature: +90 °C

Minimum operating temperature: -25 °C

Flexibility

Flexible

Resistance to

Chemical exposure: Very good/Frequent

Mechanical impact: Heavy

Water exposure: Immersion/Temporary coverage

Solar radiation and

weather exposure: Suitable for direct exposure

Cable design

Semiconductive elastomer screened power cores with three earth cores and one pilot core.

Core: Metal: tinned copper, three core plus three earths.

Insulation: EPR (R-EP-90) core, identification by printed numbers on black semiconductive elastomer insulation screen.

Earth: Three, semiconductive elastomer covered, disposed in the cable interstices.

Pilot: One EPR cover tinned annealed copper central extensible conductor.

Sheath: Heavy duty HD-85-PCP, incorporating a polyaramid yarn Kevlar® braid reinforcement (optional).

Installation conditions

In free air

Mobile equipment

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



Physical & electrical characteristics

Type 441 1.1 kV											
Voltage rating & part number	Power conductor							Earth	Cable		
	Nominal area mm ²	Nominal diameter mm	Insulation thickness mm	ac Resistance @ 90°C & 50Hz Ω/km	Reactance @ 50Hz Ω/km	3 phase voltage drop @ 90°C & 50Hz mV/A.m	Capacitance to earth μF/phase/km		Approx area (each) mm ²	Sheath thickness mm	Nominal diameter mm
Type 441.1											
6-441-1	6	3.5	1.5	4.32	0.143	7.49	0.259	2.1	3.8	30.7	140
10-441-1	10	4.6	1.5	2.58	0.130	4.47	0.314	3.4	3.8	32.8	165
16-441-1	16	6.2	1.6	1.58	0.118	2.74	0.379	5.3	3.9	36.5	210
25-441-1	25	7.2	1.6	0.951	0.111	1.66	0.432	5.3	4.2	39.3	260
35-441-1	35	8.4	1.6	0.698	0.106	1.22	0.493	5.3	4.4	42.2	305
50-441-1	50	9.7	1.7	0.523	0.105	0.924	0.526	8	4.9	47.5	395
70-441-1	70	12.0	1.8	0.346	0.0984	0.623	0.599	12.5	5.3	53.2	520
95-441-1	95	13.3	2.0	0.271	0.0953	0.498	0.591	16	5.8	57.6	620
120-441-1	120	15.3	2.1	0.210	0.0914	0.397	0.640	20	6.3	63.1	765
150-441-1	150	17.2	2.3	0.166	0.0896	0.327	0.652	27	6.7	68.6	935
185-441-1	185	18.8	2.5	0.137	0.0885	0.283	0.657	32	7.3	74.4	1115
240-441-1	240	21.7	2.8	0.107	0.0848	0.236	0.672	39.5	8.0	82.2	1385
300-441-1	300	24.3	3.0	0.0853	0.0823	0.205	0.719	50	8.7	89.4	1680

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