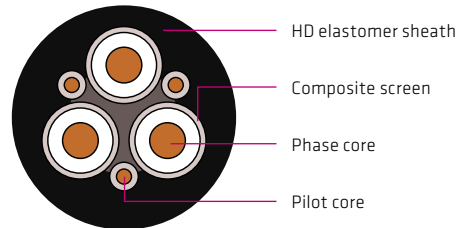


Type 240 1.1-11 kV



Cable description

Composite screened cable for general use to AS/NZS 1802.

Application

1.1/1.1 kV to 11/11 kV cable used extensively for feeder connection between transformer and gate-end box or similar, continuous miner cable or feeder cables to pumps. Having three pilots, the cable can be used in long runs, without compromising pilot control protection system resistance limitations.

For applications requiring high degrees of flexibility, Type 241 cables would be more appropriate.

Approvals

AS/NZS 1802

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

Composite screened power cores and three separate pilot conductors.

Core: Metal: tinned copper, three core plus central pilot.

Conductor separator tape:
1.1/1.1 kV – polyester.
3.3 kV and above – semiconductive screen.

Insulation: EPR (R-EP-90).

Insulation tape:
1.1/1.1 kV – proofed textile.
3.3 kV and above – semiconductive screen.

Screen: Composite screen (earth) of tinned annealed copper wire and polyester yarn.

Core colours: red, white, blue braid tracers

Pilot: Three in the interstitial cavities elastomer covered and proofed taped.

Sheath: Heavy duty HD-85-PCP.
Sheath reinforcement is available upon request.

Installation conditions

In free air
In duct
Mobile equipment
Machines

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Physical & electrical characteristics

Type 240 1.1-11 kV												
Voltage rating & part number	Power conductor							Screen	Pilot	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 mm ² /phase	Approx area (each) mm ²	Sheath thickness mm
Type 240.1												
6-240-1	6	3.5	1.5	4.32	0.141	7.49	0.259	8.2	1	3.8	31.0	150
10-240-1	10	4.6	1.5	2.58	0.130	4.47	0.314	8.2	1.5	3.8	33.3	175
16-240-1	16	6.2	1.6	1.58	0.118	2.74	0.379	10	3	4.0	37.3	230
25-240-1	25	7.2	1.6	0.951	0.112	1.66	0.432	12	4.5	4.3	40.3	295
35-240-1	35	8.4	1.6	0.698	0.107	1.22	0.493	14	6	4.6	43.6	350
50-240-1	50	9.7	1.7	0.523	0.104	0.924	0.526	14	8	5.0	47.7	425
70-240-1	70	12.0	1.8	0.346	0.0981	0.623	0.599	16	12.5	5.4	54.0	565
95-240-1	95	13.3	2.0	0.271	0.0955	0.498	0.591	18	12.5	6.0	58.9	670
120-240-1	120	15.3	2.1	0.210	0.0925	0.397	0.640	21	13.75	6.4	64.6	815
150-240-1	150	17.2	2.3	0.166	0.0907	0.328	0.652	23	17	6.9	70.4	990
185-240-1	185	18.8	2.5	0.137	0.0902	0.284	0.657	30	22	7.4	76.5	1195
240-240-1	240	21.7	2.8	0.107	0.0883	0.240	0.672	34	27	8.2	85.5	1505
300-240-1	300	24.3	3.0	0.0850	0.0873	0.211	0.719	49	35.7	8.8	94.3	1870
Type 240.3												
16-240-3	16	6.2	3.0	1.58	0.131	2.75	0.255	14	3	5.3	47.3	340
25-240-3	25	7.2	3.0	0.951	0.125	1.66	0.280	15	4.5	5.6	50.4	410
35-240-3	35	8.4	3.0	0.698	0.119	1.23	0.311	16	6	5.9	53.5	475
50-240-3	50	9.7	3.0	0.523	0.114	0.927	0.347	17	8	6.3	57.2	555
70-240-3	70	12.0	3.0	0.346	0.106	0.627	0.408	19	12.5	6.6	62.6	690
95-240-3	95	13.3	3.0	0.271	0.102	0.502	0.439	21	12.5	7.1	66.4	785
120-240-3	120	15.3	3.0	0.210	0.0985	0.402	0.492	27	13.75	7.4	72.0	955
150-240-3	150	17.2	3.0	0.166	0.0954	0.332	0.541	32	17	7.8	76.7	1130
185-240-3	185	18.8	3.0	0.137	0.0942	0.288	0.584	42	22	8.2	82.3	1330
240-240-3	240	21.7	3.0	0.106	0.0906	0.242	0.659	48	27	8.8	89.6	1615
300-240-3	300	24.3	3.0	0.0849	0.0890	0.213	0.727	63	35.7	9.4	97.7	1980
Type 240.6												
16-240-6	16	6.2	5.0	1.58	0.143	2.75	0.181	17	3	6.4	58.2	480
25-240-6	25	7.2	5.0	0.951	0.137	1.66	0.193	19	4.5	6.7	61.7	570
35-240-6	35	8.4	5.0	0.698	0.130	1.23	0.212	21	6	7.0	64.8	645
50-240-6	50	9.7	5.0	0.523	0.124	0.931	0.234	22	8	7.3	68.2	730
70-240-6	70	12.0	5.0	0.346	0.116	0.632	0.271	23	12.5	7.7	73.8	880
95-240-6	95	13.3	5.0	0.271	0.113	0.509	0.292	30	12.5	8.1	78.0	1020
120-240-6	120	15.3	5.0	0.210	0.108	0.409	0.325	32	13.75	8.5	83.2	1180
150-240-6	150	17.2	5.0	0.166	0.105	0.340	0.354	46	17	8.9	89.2	1410
185-240-6	185	18.8	5.0	0.136	0.102	0.294	0.381	48	22	9.3	93.6	1585
240-240-6	240	21.7	5.0	0.106	0.0981	0.250	0.426	53	27	9.9	101	1885
300-240-6	300	24.3	5.0	0.0845	0.0959	0.221	0.467	71	35.7	10.4	109	2275
Type 240.11												
25-240-11	25	7.2	7.6	0.951	0.150	1.67	0.150	24	4.5	8.1	75.9	815
35-240-11	35	8.4	7.6	0.698	0.143	1.23	0.163	30	6	8.4	79.6	930
50-240-11	50	9.7	7.6	0.523	0.136	0.936	0.178	32	8	8.7	83.0	1025
70-240-11	70	12.0	7.6	0.346	0.127	0.638	0.204	35	12.5	9.1	88.7	1210
95-240-11	95	13.3	7.6	0.271	0.124	0.516	0.219	48	12.5	9.6	93.8	1385
120-240-11	120	15.3	7.6	0.210	0.119	0.418	0.241	53	13.75	9.9	98.7	1565
150-240-11	150	17.2	7.6	0.165	0.114	0.347	0.261	56	17	10.3	103	1765
185-240-11	185	18.8	7.6	0.136	0.111	0.304	0.279	56	22	10.7	108	1945
240-240-11	240	21.7	7.6	0.106	0.107	0.261	0.309	77	27	11.3	116	2340

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