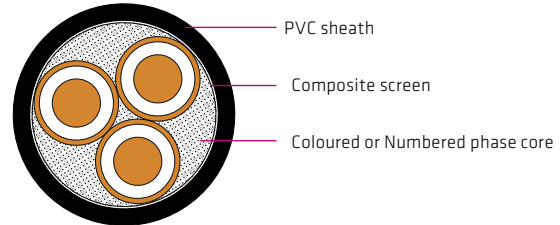


Type 1 1.1 kV



Cable description

PVC insulated and covered, screened cable.

Application

Cable designed for the wiring of mobile equipment such as continuous miners, shuttle cars, road headers, personnel transports, etc. Type 1 cables require further mechanical protection when used in external (non-protected) installations. They are used for the interconnection of equipment, for example control boxes, motors, etc. Cables rated in excess of 20 amps are electrically symmetrical.

Approvals

AS/NZS 1972

Behaviour in flame and fire

No fire performance

Temperature range

Maximum operating temperature: +90 °C

Minimum operating temperature: 0 °C

Flexibility

Flexible

Resistance to

Chemical exposure: Very good/Frequent

Mechanical impact: Light

Water exposure: Water splashes

Solar radiation and

weather exposure: Very good/Frequent

Cable design

PVC insulated, screened, PVC sheathed cable.

Core: Metal: Tinned annealed copper

Insulation: Heat resistant V-90 PVC.

Screen: Tinned copper wire and polyester yarn composite braid screened. Cables can be individually or collectively (as displayed) screened.

Cover: Heat resistant 5V-90 PVC.

Installation conditions

In duct

Machines

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Physical & electrical characteristics

Type 1 1.1 kV											
Voltage rating & part number	Power conductor							Screen Max 20°C dc resistance, combined	Cable		
	Nominal area mm ²	No. of cores	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		Covering thickness mm	Nominal diameter mm	Approx mass kg/100m
1.1/1.1 kV Type 1 – Individually screened machine cables											
1.5T1-IS-2C	1.5	2	1.6	0.8	17.5	0.120	30.3	13.7	0.8	10.2	15
1.5T1-IS-3C	1.5	3	1.6	0.8	17.5	0.120	30.3	13.7	0.8	10.8	20
10T1-IS-3C	10	3	4.6	1.0	2.58	0.0923	4.47	6.06	1.0	18.1	60
16T1-IS-3C	16	3	6.2	1.0	1.58	0.0854	2.74	3.72	1.3	22.0	85
1.5T1-IS-4C	1.5	4	1.6	0.8	17.5	0.128	30.3	13.7	0.8	11.9	25
10T1-IS-4C	10	4	4.6	1.0	2.58	0.0998	4.47	6.06	1.3	20.5	75
16T1-IS-4C	16	4	6.2	1.0	1.58	0.0929	2.74	3.72	1.3	24.3	110
1.1/1.1 kV Type 1 – Collectively screened machine cables											
1.5T1-CS-2C	1.5	2	1.6	0.8	17.5	0.106	30.3	13.7	0.8	9.38	15
1.5T1-CS-3C	1.5	3	1.6	0.8	17.5	0.106	30.3	13.7	0.8	9.88	15
1.5T1-CS-4C	1.5	4	1.6	0.8	17.5	0.114	30.3	13.7	0.8	10.7	20
1.5T1-CS-6C	1.5	6	1.6	0.8	17.5	0.123	30.3	13.7	1.0	12.8	25
1.5T1-CS-16C	1.5	16	1.6	0.8	17.5	0.152	30.3	13.7	1.3	18.8	55
1.5T1-CS-30C	1.5	30	1.6	0.8	17.5	0.169	30.3	13.7	1.5	24.7	90

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