

Metric Cables (Pty) Ltd

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TYPE 41 RUBBER MINE CABLE

CABLE DESCRIPTION

Flexible rubber cable with water block and finely stranded tinned class 5 copper according to SANS 1411-5, suitable for reeling, mobile equipment and pump applications.

Typically used on self-propelled electrically driven machines, moveable electrical apparatus in hazardous areas, for pumps, drills, fans and shuttle cars.

Configuration: 4 core cable with 3 individually screened phase cores, plus 1 unscreened pilot or earth core.

Specification: SABS 1520 part 1, low voltage cables. (640/1100 volts and 1900/3300 volts)

TECHNICAL DATA

Properties	Units	Phase Core Sizes						
Phase Core Size	mm ²	4mm ²	6mm ²	10mm ²	16mm ²	25mm ²	35mm ²	50mm ²
Pilot Size	mm ²	4mm ²	6mm ²	10mm ²	16mm ²	25mm ²	35mm ²	50mm ²
Nominal O/D	mm ²	24	25	26.5	29	34	36.5	39
Test Voltage	kV @ 10min.	3	3	3	3	3	3	3
Current Rating	Amps AC (Max.)	45	55	75	100	128	159	192
Voltage Drop (Phase Cores)	mV/Am (Min.)	12.1	8.1	4.7	3	1.9	1.5	1
Phase Conductor Resistance	Ω/km @ 20°C	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Pilot Conductor Resistance	Ω/km @ 20°C	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Braid Resistance	Ω/km @ 20°C	5	4	3.5	2.5	1.6	0.7	0.39
Phase Dielectric Resistance	MΩ/km @ 20°C	400	350	300	250	200	180	160

Pilot Dielectric Resistance	MΩ/km @ 20°C	550	490	420	350	310	230	180
Insulation Tensile Strength	MPa (Min.)	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Sheath Tensile Strength	MPa (Min.)	15	15	15	15	15	15	15
Sheath Tear Resistance	N/mm (Min.)	10	10	10	10	10	10	10
Insulation Elongation at Break	% (Min.)	200	200	200	200	200	200	200
Sheath Elongation at Break	% (Min.)	250	250	250	250	250	250	250
Cable Mass	kg/metre	0.9	1.04	1.34	2	2.3	2.6	2.9