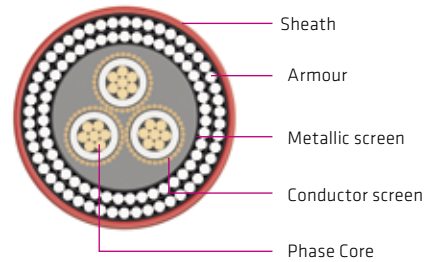


Single Point Suspension Cable 11-22 kV



Cable description

Single point suspension cables that are also known as borehole cables are used in both underground coal and metalliferous mines. The cables are designed to be self-supporting from the surface when lowered down a vertical shaft or a borehole. The construction incorporates double armour for the suspended length which is specifically engineered to resist torsion forces. These cables can include earth cores and fibre optic cables within the cable assembly where required.

Application

Typical use consists of low cost overhead network covering an expansive geographical area of a mine with boreholes drilled at selected points to supply power to working areas in tunnels. Common feeder voltages are 6.35/11KV and 12.7/22KV which meet Australian Standard AS/NZS1972 for underground coal mines and generic AS/NZS 1429.1 constructions for metalliferous mines.

Approvals

AS/NZS 1972

Temperature range

Maximum operating temperature: +90 °C

Cable design

Core: Metal: Plain circular compacted copper.

Conductor screen:

Extruded semiconducting compound, bonded to the insulation and applied in the same operation as the insulation.

Insulation: Cross Linked Polyethylene (XLPE) - standard.

Insulation screen:

Extruded semiconducting compound.

Metallic screen:

Plain annealed copper wire. Combined screen area is designed to provide not less than 50% conductance of one associated power conductor.

Armour: Galvanised steel wires.

Outer sheath:

Red 5V-90 polyvinyl chloride (PVC).

Note: The final cable design is installation specific.

For additional information please contact our sales team on 1300 300 304 or sales.au@prysmiangroup.com

Physical & electrical characteristics

11 kV Single Point Suspension Cable					
Product code:		185X3C	240X3C	300X3C	400X3C
11 kV					
Nominal conductor area mm ²		185	240	300	400
Nominal conductor diameter mm		16.05	18.24	20.6	23.45
Nominal diameter under armour mm		63	71	77	82
Nominal wire armour diameter mm		3.2	3.2	3.2	3.2
Nominal diameter mm	Suspended	90.2	98.4	104.1	109.2
	Suspension	100	108	114	119
Max Length m		600	500	450	400

Note: For rating factors see technical information.

22 kV Single Point Suspension Cable				
Product code:		185X3C	240X3C	300X3C
22 kV				
Nominal conductor area mm ²		185	240	300
Nominal conductor diameter mm		16.05	18.24	20.6
Nominal diameter under armour mm		75	80	86
Nominal wire armour diameter mm		3.2	3.2	3.2
Nominal diameter mm	Suspended	102.69	107.61	113.2
	Suspension	112	117	123
Max Length m		550	450	400

Note: For rating factors see technical information.

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