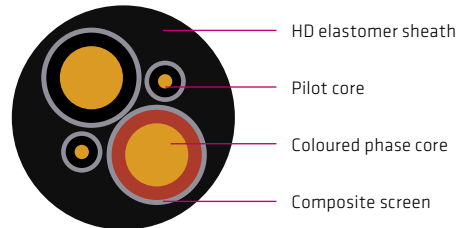


Type 2S, Type 2S.3



Cable description

Elastomer insulated and sheathed, screened cable.

Application

Cables designed for wiring mobile equipment such as continuous miners, shuttle cars, road headers, and personnel transporters. 0.6/1 kV Type 2S cables are sheathed and do not 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., and may be used for longwall lighting systems.

Approvals

AS/NZS 1972

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: Very good/Frequent

Cable design

EPR insulated, screened, CPE sheathed cable.

Core: Metal: Tinned annealed copper.

Insulation: EPR (R-EP-90).

Pilot (where required):

Tinned annealed copper, R-EP-90 insulated (screened when individual power cores are screened).

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

Sheath: HD-90-CPE Black.

Installation conditions

In free air

Mobile equipment

Machines

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Physical & electrical characteristics

Type 2S, Type 2S.3													
Voltage rating & part number	Power conductor							Pilot		Screen	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	Approx area mm ²	No. of cores	Max 20°C dc resistance, combined Ω/km	Sheath thickness mm	Nominal diameter mm	Approx mass kg/100m
1.1/1.1 kV Type 2S – Individually screened machine cables													
10T2S-IS-2C	10	2	4.6	1.0	2.58	0.0953	4.47	-	-	6.06	1.8	18.9	60
16T2S-IS-2C	16	2	6.2	1.0	1.58	0.0879	2.74	-	-	3.72	1.8	22.1	85
10T2S-IS-3C	10	3	4.6	1.0	2.58	0.0953	4.47	-	-	6.06	1.8	20.1	75
16T2S-IS-3C	16	3	6.2	1.0	1.58	0.0879	2.74	-	-	3.72	1.8	23.5	105
10T2S-IS-4C	10	4	4.6	1.0	2.58	0.103	4.47	-	-	6.06	1.8	22.1	95
16T2S-IS-4C	16	4	6.2	1.0	1.58	0.0954	2.74	-	-	3.72	1.8	25.9	130
16T2S-IS-2C1P	16	2	6.2	1.0	1.58	0.0786	2.74	1	1	3.72	1.8	22.1	100
6T2S-IS-2C2P	6	2	3.5	1.0	4.32	0.0936	7.48	1	2	8.21	1.8	16.9	50
10T2S-IS-2C2P	10	2	4.6	1.0	2.58	0.0860	4.47	1	2	6.06	1.8	19.0	65
16T2S-IS-2C2P	16	2	6.2	1.0	1.58	0.0786	2.74	1	2	3.72	1.8	22.1	90
6T2S-IS-3C3P	6	3	3.5	1.0	4.32	0.119	7.49	1	3	8.21	1.8	19.8	70
10T2S-IS-3C3P	10	3	4.6	1.0	2.58	0.104	4.47	1	3	6.06	1.8	21.3	85
16T2S-IS-3C3P	16	3	6.2	1.0	1.58	0.0879	2.74	1	3	3.72	1.8	23.5	110
25T2S-IS-3C3P	25	3	7.2	1.2	0.951	0.0870	1.65	1	3	2.24	1.8	26.8	155
35T2S-IS-3C3P	35	3	8.4	1.2	0.698	0.0837	1.22	1	3	1.64	1.8	29.5	190
50T2S-IS-3C3P	50	3	9.7	1.4	0.523	0.0828	0.917	1	3	1.23	1.9	33.4	245
3.3/3.3 kV Type 2S.3 – Individually screened machine cables													
10T2S.3-IS-3C3P	10	3	4.6	3.0	2.58	0.125	4.47	1.5	3	6.06	1.8	30.5	140
16T2S.3-IS-3C3P	16	3	6.2	3.0	1.58	0.116	2.74	1.5	3	3.72	1.9	34.7	185
25T2S.3-IS-3C3P	25	3	7.2	3.0	0.951	0.110	1.66	1.5	3	2.24	2.0	37.3	235
35T2S.3-IS-3C3P	35	3	8.4	3.0	0.698	0.105	1.22	1.5	3	1.64	2.0	39.8	275
50T2S.3-IS-3C3P	50	3	9.7	3.0	0.523	0.101	0.923	1.5	3	1.23	2.1	42.8	325
70T2S.3-IS-3C3P	70	3	12.0	3.0	0.346	0.0950	0.621	1.5	3	0.813	2.3	48.3	435
95T2S.3-IS-3C3P	95	3	13.3	3.0	0.271	0.0926	0.496	1.5	3	0.636	2.4	51.4	515
120T2S.3-IS-3C3P	120	3	15.3	3.0	0.210	0.0897	0.396	1.5	3	0.492	2.5	56.4	640
1.1/1.1 kV Type 2S – Collectively screened machine cables													
1.5T2S-CS-2C	1.5	2	1.6	1.0	17.5	0.118	30.3	-	-	13.7	1.8	12.2	20
1.5T2S-CS-3C	1.5	3	1.6	1.0	17.5	0.119	30.3	-	-	13.7	1.8	12.7	25
1.5T2S-CS-4C	1.5	4	1.6	1.0	17.5	0.126	30.3	-	-	13.7	1.8	13.7	25
1.5T2S-CS-6C	1.5	6	1.6	1.0	17.5	0.135	30.3	-	-	13.7	1.8	16.0	35
1.5T2S-CS-16C	1.5	16	1.6	1.0	17.5	0.164	30.3	-	-	13.7	1.8	22.8	75
1.5T2S-CS-30C	1.5	30	1.6	1.0	17.5	0.181	30.3	-	-	13.7	1.8	29.1	120

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