659(*) SW4 0.6/1 kV

TCu/EPR/ZH/TPBWB/ZH

BS 6883

Halogen-free, flame retardant, offshore & shipboard power cables with elastomeric insulation and sheath, with tinned phosphor bronze wire braid

CONSTRUCTION

Conductors	Tinned annealed circular stranded copper class 2 acc. to BS EN 60228
Insulation	Halogen-free elastomer compound EPR type GP4 acc. to BS 7655-1.2
Core identification	Red or black
Inner sheath	Halogen-free, heat-resistant, oil-resisting and flame-retardant elastomer compound type SW4 acc. to BS 7655-2.6
Screen	Tinned phosphor bronze wire braid
Separator	Separator, suitable tape between the braid and outer sheath
Outer sheath	Halogen-free, heat-resistant, oil-resisting and flame--retardant elastomer compound type SW4 acc. to BS 7655-2.6
Colour of outer sheath	Black

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C	
Lowest ambient temperature for fixed installation:	-40°C	
Lowest installation temperature:	-15°C	
Minimum bending radius:	**Overall diameter of cable (D)**	**Minimum bending radius**
	< 25 mm	4 D
	> 25 mm	6 D
	D – overall diameter of cable	

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Fire performance

Flame retardant:	IEC 60332-3-22 Category A
Smoke emission:	BS EN 61034-2, IEC 61034-2
Corrosive gas emission:	BS EN 50267-2-1, IEC 60754-1: type SW4 cables ≤ 0.5% HCl
UV resistant:	UL 1581

Applications

Armoured instrumentation cable for fixed installations in all areas including accommodation and on open deck in ships and offshore units where halogen-free cable protection is required.

Standard length cable packing:	1,000 m on drums Other forms of packing and delivery are available on request

Number and cross-sectional area of conductor	Class of the conductor	Nominal thickness of insulation	Nominal thickness of inner sheath	Diameter of wires in braid	Nominal thickness of outer sheath	Approximate overall diameter of cable	Approximate net weight of the cable
n × mm²		**mm**	**mm**	**mm**	**mm**	**mm**	**kg/km**
1 × 1	2	0.8	1	0.3	1.1	8.5	137
1 × 1.5	2	0.8	1	0.3	1.1	8.8	145
1 × 2.5	2	0.8	1	0.3	1.1	9.2	160
1 × 4	2	1	1	0.3	1.1	10.2	190
1 × 6	2	1	1	0.3	1.1	10.8	219
1 × 10	2	1	1	0.3	1.2	11.9	280
1 × 16	2	1	1.1	0.3	1.2	13.3	371
1 × 25	2	1.2	1.2	0.3	1.3	15.4	519
1 × 35	2	1.2	1.2	0.3	1.4	16.8	644
1 × 50	2	1.4	1.3	0.3	1.4	18.5	789
1 × 50*	5	1.4	1.3	0.3	1.4	18.7	798
1 × 70	2	1.4	1.3	0.3	1.5	20.4	1,029
1 × 95	2	1.6	1.4	0.3	1.6	23.2	1,372
1 × 120	2	1.6	1.5	0.3	1.7	25.1	1,635
1 × 150	2	1.8	1.6	0.3	1.8	27.4	1,975

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Number and cross-sectional area of conductor	Class of the conductor	Nominal thickness of insulation	Nominal thickness of inner sheath	Diameter of wires in braid	Nominal thickness of outer sheath	Approximate overall diameter of cable	Approximate net weight of the cable
1 × 185	2	2	1.7	0.45	1.9	30.7	2,520
1 × 185*	5	2	1.7	0.45	1.9	31.3	2,438
1 × 240	2	2.2	1.8	0.45	2	34.1	3,184
1 × 300	2	2.4	1.9	0.45	2.1	37.2	3,877
1 × 400	2	2.6	2	0.45	2.3	41.1	4,814
1 × 500	2	2.8	2.2	0.45	2.5	45.7	6,042
1 × 630	2	2.8	2.3	0.45	2.6	50	7,609

*) Based on standard

Please refer to technical section for additional information relating to these cables.