

# 657(\*) SW4 0.6/1 kV

EPR/ZH

BS 6883

Flame retardant, halogen-free, offshore & shipboard power, control & lighting cables with elastomeric insulation and sheath

## CONSTRUCTION

Conductors	Tinned annealed circular stranded copper	
	Class 5 acc. to BS EN 60228	Class 2 acc. to BS EN 60228
	<sup>1)</sup> For sizes: 1.0 ÷ 1.5 mm <sup>2</sup>	<sup>2)</sup> For sizes 2.5 mm <sup>2</sup> and above
Insulation	Halogen-free elastomer compound EPR type GP4 acc. to BS 7655-1.2	
Core identification <sup>3)</sup>	All cores are white with black printed numbers	
Outer sheath	Heat-resistant, oil-resisting and flame-retardant elastomer compound type SW4 acc. to BS 7655-2.6	
Colour of outer sheath	Black	
Cable marking	ELECTRIC CABLE Type SW4 "number of cores" "x" "conductor size" "600/1,000 V" "TFK3" "BS6883" "UK00A code" "IEC60332-3-22 cat. A" "year" "metre mark"	

<sup>1)</sup> Class 2 conductors for sizes below 2.5 mm<sup>2</sup> are available on request.

<sup>2)</sup> Class 5 flexible conductors for sizes above 2.5 mm<sup>2</sup> are available on request.

<sup>3)</sup> Coloured cores are available on request.



## CHARACTERISTIC

Maximum conductor operating temperature:	+90°C	
Lowest ambient temperature for fixed installation:	-40°C	
Lowest installation temperature:	-15°C	
Minimum bending radius:	<b>Overall diameter of cable (D)</b>	<b>Minimum bending radius</b>
	≤ 10 mm	3 D
	16-25 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 $\leq$ 0.5% HCl
UV resistant:	UL 1581

## Applications

Power, control or lighting cable for fixed installations in all areas and open deck in ships and offshore units.

## Approvals

LR

Details related to particular Approvals are informative only. Please contact manufacturer to confirm whether the required cross-sections are covered by the Certificate.

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 conductor	Nominal thickness of insulation	Nominal thickness of outer sheath	Approximate overall diameter of cable	Approximate net weight of cables SW4	UKOOA Code
<b>n × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	
1 × 1	5	0.8	1.0	4.8	34	WF101
1 × 1.5	5	0.8	1.0	5.1	40	WF102
1 × 2.5	2	0.8	1.0	5.6	54	WF103
1 × 4	2	1.0	1.0	6.7	78	WF104
1 × 6	2	1.0	1.0	7.3	101	WF106
1 × 6	5	1.0	1.0	7.1	96	–
1 × 10	2	1.0	1.0	8.2	144	WF110
1 × 16	2	1.0	1.1	9.5	216	WF116
1 × 25	2	1.2	1.2	11.5	328	WF125
1 × 35	2	1.2	1.2	12.6	429	WF135

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1 × 50	2	1.4	1.3	14.3	551	WF150
1 × 70	2	1.4	1.3	16.1	753	WF170
1 × 95	2	1.6	1.4	18.6	1,049	WF195
1 × 120	2	1.6	1.5	20.3	1,274	WF10A
1 × 150	2	1.8	1.6	22.5	1,568	WF10B
1 × 185	2	2.0	1.7	25.0	1,949	WF10C
1 × 240	2	2.2	1.8	28.0	2,530	WF10D
1 × 300	2	2.4	1.9	31.1	3,134	WF10E
1 × 400	2	2.6	2.0	34.6	4,258	WF10F
1 × 500	2	2.8	2.2	38.8	5,337	WF10G
1 × 630	2	2.8	2.2	42.9	6,533	WF10H
2 × 1	5	0.8	1.0	8.1	86	WF201
2 × 1.5	5	0.8	1.1	8.5	103	WF202
2 × 2.5	2	0.8	1.1	9.5	140	WF203
2 × 4	2	1.0	1.2	11.7	210	WF204
2 × 6	2	1.0	1.2	12.8	270	WF206
2 × 10	2	1.0	1.3	14.9	391	WF210
2 × 16	2	1.0	1.4	17.4	574	WF216
2 × 25	2	1.2	1.5	21.1	864	WF225
2 × 35	2	1.2	1.6	23.7	1,129	WF235
2 × 50	2	1.4	1.7	26.8	1,452	WF250
2 × 70	2	1.4	1.9	30.7	1,991	WF270
2 × 95	2	1.6	2.1	35.8	2,766	WF295
2 × 120	2	1.6	2.2	39.1	3,338	WF20A
2 × 150	2	1.8	2.3	43.1	4,097	WF20B
3 × 1	5	0.8	1.1	8.4	100	WF301
3 × 1.5	5	0.8	1.1	9.0	122	WF302
3 × 2.5	2	0.8	1.1	10.1	169	WF303
3 × 4	2	1.0	1.2	12.4	257	WF304
3 × 6	2	1.0	1.2	13.6	335	WF306
3 × 10	2	1.0	1.3	15.9	490	WF310
3 × 16	2	1.0	1.4	18.6	732	WF316
3 × 25	2	1.2	1.6	22.7	1,121	WF325
3 × 35	2	1.2	1.7	25.4	1,474	WF335

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3 × 50	2	1.4	1.8	28.9	1,893	WF350
3 × 70	2	1.4	2.0	33.0	2,611	WF370
3 × 95	2	1.6	2.2	38.5	3,638	WF395
3 × 120	2	1.6	2.3	41.8	4,400	WF30A
3 × 150	2	1.8	2.5	46.5	5,425	WF30B
3 × 185	2	2.0	2.7	51.9	6,754	WF30C
3 × 240	2	2.2	2.9	58.7	8,770	WF30D
4 × 1	5	0.8	1.1	9.1	122	WF401
4 × 1.5	5	0.8	1.1	9.8	149	WF402
4 × 2.5	2	0.8	1.1	11.0	210	WF403
4 × 4	2	1.0	1.2	13.6	321	WF404
4 × 6	2	1.0	1.3	15.2	428	WF406
4 × 10	2	1.0	1.4	17.6	627	WF410
4 × 16	2	1.0	1.5	20.6	940	WF416
4 × 25	2	1.2	1.7	25.3	1,442	WF425
4 × 35	2	1.2	1.8	28.2	1,899	WF435
4 × 50	2	1.4	1.9	32.1	2,439	WF450
4 × 70	2	1.4	2.1	36.7	3,370	WF470
4 × 95	2	1.6	2.3	42.8	4,700	WF495
4 × 120	2	1.6	2.5	46.7	5,710	WF40A
4 × 150	2	1.8	2.7	51.9	7,035	WF40B
5 × 1.5	5	0.8	1.1	10.7	180	–
5 × 2.5	2	0.8	1.2	12.2	260	–
5 × 4*	2	1	1.3	15.2	394	–
5 × 6*	2	1	1.4	16.9	463	–
5 × 10*	2	1	1.5	19.6	685	–
5 × 35*	2	1.2	1.9	31.3	2,114	–
5 × 50*	2	1.4	2	35.6	2,709	–
6 × 1.5*	2	0.8	1.2	12.0	226	–
6 × 1.5*	5	0.8	1.2	11.8	214	–
6 × 2.5*	2	0.8	1.2	13.3	305	–
7 × 1.5	5	0.8	1.2	12.8	252	WF702
7 × 2.5	2	0.8	1.2	14.4	359	WF703
9 × 1.5*	5	0.8	1.3	14.9	304	–

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10 × 1.5*	2	0.8	1.3	15.4	347	–
10 × 1.5*	5	0.8	1.3	15.1	326	–
12 × 1.5	5	0.8	1.3	15.6	370	WFA02
12 × 2.5	2	0.8	1.4	17.9	543	WFA03
19 × 1.5	5	0.8	1.4	19.4	570	WFB02
19 × 2.5	2	0.8	1.5	22.2	842	WFB03
27 × 1.5	5	0.8	1.6	22.4	766	WFC02
27 × 2.5*	5	0.8	1.7	25.5	1,082	–
37 × 1.5	5	0.8	1.7	26.2	1,107	WFD02

\*Based on standard

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

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