



TCu/MGT/EPR/ZH/GSWB/ZH

0.6/1 kV SW4

BS 7917

Halogen-free, fire resistant, low smoke, low voltage cables with elastomeric insulation and sheath, with steel wire braid

CONSTRUCTION

Conductors	Tinned annealed circular stranded copper according to BS EN 60228 class 2 or class 5
Insulation	Mica glass tape Halogen-free elastomer compound EPR type GP4 acc. to BS 7655-1.2
Core identification	All cores are white with black printed numbers ¹⁾
Inner sheath	Halogen-free elastomer compound EPR type SB 1 acc. to BS 7917
Braid armour	Galvanized steel 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 or other colors can be provided.
Cable marking e.g.	ELECTRIC CABLE TYPE SW4 F1 "number of core" "x" "conductor size" "600/1,000 V" "TFK3" "BS 7917" "UK00A code" "IEC60331-21" "IEC60332-3-22 cat. A" "year" "metre mark"

¹⁾Other colours available on request



CHARACTERISTIC

Maximum conductor operating temperature:	+90°C						
Maximum conductor temperature during short circuit:	+250°C						
Lowest ambient temperature for fixed installation:	-40°C						
Lowest installation temperature:	-15°C						
Minimum bending radius:	<table><tr><th>Overall diameter of cable (D)</th><th>Minimum bending radius</th></tr><tr><td>< 25 mm</td><td>4 D</td></tr><tr><td>> 25 mm</td><td>6 D</td></tr></table>	Overall diameter of cable (D)	Minimum bending radius	< 25 mm	4 D	> 25 mm	6 D
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
Fire resistant:	IEC 60331-21
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

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Applications

Elastomer insulated, fire resistant (limited circuit integrity) cables for fixed wiring in ships and on mobile and fixed 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 inner sheath	Diameter of steel wires in braid	Nominal thickness of outer sheath	Approximate overall diameter of cable	Approximate net weight of cables SW4	UKOOA Code
n × mm ²		mm	mm	mm	mm	mm	kg/km	
2 × 1.5	5	0.8	1.1	0.3	1.2	14.4	312	YD202
2 × 2.5	2	0.8	1.1	0.3	1.2	15.3	350	YD203
2 × 4	2	1	1.2	0.3	1.3	17.5	464	YD204
2 × 6	2	1	1.2	0.3	1.4	18.9	542	YD206
2 × 10	2	1	1.3	0.3	1.4	20.9	696	YD210
2 × 16	2	1	1.4	0.3	1.5	23.7	947	YD216
2 × 25	2	1.2	1.5	0.3	1.7	27.8	1,330	YD225
2 × 35	2	1.2	1.6	0.3	1.8	30.5	1,639	YD235
2 × 50	2	1.4	1.7	0.45	2	34.7	2,163	YD250

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2 × 70	2	1.4	1.9	0.45	2.1	38.9	2,824	YD270
2 × 95	2	1.6	2.1	0.45	2.3	44.4	3,766	YD295
2 × 120	2	1.6	2.2	0.45	2.5	48	4,483	YD20A
3 × 1.5	5	0.8	1.1	0.3	1.2	14.2	319	YD302
3 × 2.5	2	0.8	1.1	0.3	1.3	15.6	378	YD303
3 × 4	2	1	1.2	0.3	1.3	17.7	502	YD304
3 × 6	2	1	1.2	0.3	1.4	19.1	596	YD306
3 × 10	2	1	1.3	0.3	1.5	21.5	803	YD310
3 × 16	2	1	1.4	0.3	1.6	24.4	1,102	YD316
3 × 25	2	1.2	1.6	0.3	1.8	29.7	1,611	YD325
3 × 35	2	1.2	1.7	0.45	1.9	33.2	2,138	YD335
3 × 50	2	1.4	1.8	0.45	2	37.1	2,669	YD350
3 × 70	2	1.4	2	0.45	2.2	41.5	3,529	YD370
3 × 95	2	1.6	2.2	0.45	2.4	47.3	4,730	YD395
3 × 120	2	1.6	2.3	0.45	2.6	51.1	5,642	YD30A
4 × 1.5	2	0.8	1.1	0.3	1.3	15.6	366	YD402
4 × 2.5	2	0.8	1.1	0.3	1.3	16.7	440	YD403
4 × 4	2	1	1.2	0.3	1.4	19.3	594	YD404
4 × 6	2	1	1.3	0.3	1.5	21	727	YD406
4 × 10	2	1	1.4	0.3	1.6	23.6	973	YD410
4 × 16	2	1	1.5	0.3	1.7	26.9	1,345	YD416
4 × 25	2	1.2	1.7	0.45	1.9	33.3	2,110	YD425
4 × 35	2	1.2	1.8	0.45	2	36.5	2,671	YD435
4 × 50	2	1.4	1.9	0.45	2.2	40.7	3,350	YD450
4 × 70	2	1.4	2.1	0.45	2.4	45.8	4,436	YD470
4 × 95	2	1.6	2.3	0.45	2.6	52.2	5,960	YD495
4 × 120	2	1.6	2.5	0.45	2.8	57.7	7,093	YD40A
5 × 1.5	5	0.8	1.1	0.3	1.3	17.5	464	–
5 × 2.5	2	0.8	1.2	0.3	1.3	18.7	566	–
5 × 4*	2	1	1.3	0.3	1.5	21.3	698	–
5 × 6*	2	1	1.3	0.3	1.5	23.1	851	–
5 × 25*	2	1.2	1.8	0.45	2.0	35.5	2,425	–
5 × 70*	2	1.4	2.2	0.45	2.6	49.9	5,276	–
5 × 95*	2	1.6	2.4	0.45	2.7	56.9	7,099	–

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7 × 1.5	5	0.8	1.2	0.3	1.3	18.8	580	YD702
7 × 2.5	2	0.8	1.2	0.3	1.4	20	708	YD703
8 × 1.5*	5	0.8	1.3	0.3	1.5	20.9	588	–
12 × 1.5	5	0.8	1.3	0.3	1.5	23.9	797	YDA02
12 × 2.5	2	0.8	1.4	0.3	1.6	26	986	YDA03
14 × 2.5*	2	0.8	1.5	0.3	1.7	27	1,090	–
16 × 2.5*	2	0.8	1.5	0.3	1.7	28.2	1,200	–
19 × 1.5	5	0.8	1.4	0.3	1.6	27.1	1,139	YDB02
19 × 2.5	2	0.8	1.5	0.3	1.7	29.1	1,435	YDB03
20 × 2.5*	2	0.8	1.6	0.45	1.8	31.9	1,548	–
24 × 1.5*	5	0.8	1.6	0.45	1.8	31.9	1,411	–
24 × 2.5*	2	0.8	1.6	0.45	1.8	34.9	1,814	–
27 × 1.5	5	0.8	1.6	0.3	1.8	31.9	1,461	YDC02
27 × 2.5*	2	0.8	1.6	0.45	1.8	35.5	1,983	YDC03
37 × 1.5	5	0.8	1.7	0.45	1.9	35.8	1,608	YDD02
37 × 2.5*	2	0.8	1.8	0.45	2.0	41.2	2,515	–

* Based on standard

Classification Bureau	Type cables
LR	657(*) SW4 0.6/1 kV EPR/ZH BS 6883
	658(*) SW4 0.6/1 kV TCu/EPR/ZH/GSWB/ZH BS 6883
	658(*) (c) SW4 150/250 V TCu/EPR/CAM/ZH/GSWB/ZH BS 6883
	658(*) (l) SW4 150/250 V TCu/EPR/IAM/ZH/GSWB/ZH BS 6883
	TCu/MGT/EPR/IS/ZH/GSWB/ZH 150/250 V BS 7917
	TCu/MGT/EPR/CS/ZH/GSWB/ZH 150/250 V BS 7917
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