



TCu/MGT/EPR/CS/ZH/GSWB/ZH

150/250 V

BS 7917

Halogen-free, fire resistant, low smoke, instrumentation 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
Pairs identification	Black and white with printed number of pairs in contrasting color on the insulation
Screen	Collective screen Aluminium/polyester tape with the metallic side in contact with tinned copper drain wire
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	Grey or blue or other colors can be provided.
Cable marking e.g.	ELECTRIC CABLE "Type SW4 F1" "number of pairs" "x" "conductor size" "(C)" "150/250 V" "TFK3" "BS 7917" "UK00A code" "IEC60331-21" "IEC60332-3-22 cat. A" "year" "metre mark"



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:	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
Gases evolved during combustion:	BS EN 50267-2-1, IEC 60754-1, type SW4 cables: ≤ 0.5% HCl

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 of pairs and nominal 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	UKOOA Code (Grey/Blue)
n × 2 × mm²		mm	mm	mm	mm	mm	kg/km	
7 × 2 × 1.5*	5	0.8	1.6	0.3	1.8	27.9	908	GNJ02/GLJ02
n × 2 × mm²		mm	mm	mm	mm	mm	kg/km	
12 × 2 × 0.75	5	0.8	1.6	0.3	1.7	31.3	1,075	GNK00/GLK00
12 × 2 × 1.0	5	0.8	1.6	0.3	1.8	32.1	1,104	GNK01/GLK01
12 × 2 × 1.5*	5	0.8	1.8	0.45	2.1	35.8	1,496	GNK02/GLK02
20 × 2 × 0.75	2	0.8	1.8	0.45	2	39.6	1,665	GNL00/GLL00
20 × 2 × 1.0	5	0.8	1.8	0.45	2.1	40.6	1,792	GNL01/GLL01
20 × 2 × 1.5*	5	0.8	2	0.45	2.2	43.9	2,157	GNL02/GLL02
20 × 2 × 1.5*	2	0.8	2	0.45	2.2	44.6	2,274	–

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2 × 2 × 0.75*	5	0.8	1.2	0.3	1.4	15.1	307	–
2 × 2 × 1.0*	5	0.8	1.2	0.3	1.4	15.7	334	–
2 × 2 × 1.0*	2	0.8	1.2	0.3	1.4	15.9	341	–
2 × 2 × 1.5*	5	0.8	1.2	0.3	1.4	16.0	358	–
2 × 2 × 1.5*	2	0.8	1.2	0.3	1.4	16.3	370	–
3 × 2 × 0.75	5	0.8	1.2	0.3	1.4	19.3	434	GNH00/GLH00
3 × 2 × 1.0	5	0.8	1.2	0.3	1.4	19.6	437	GNH01/GLH01
3 × 2 × 1.5*	5	0.8	1.4	0.3	1.6	21.5	533	GNH02/GLH02
3 × 2 × 2.5*	5	0.8	1.6	0.3	1.8	24.1	735	GNH03/GLH03
7 × 2 × 0.75	5	0.8	1.4	0.3	1.5	24.8	707	GNJ00/GLJ00
7 × 2 × 1.0	5	0.8	1.4	0.3	1.6	25.5	737	GNJ01/GLJ01
7 × 2 × 1.5*	5	0.8	1.6	0.3	1.8	27.9	908	GNJ02/GLJ02
n × 2 × mm²		mm	mm	mm	mm	mm	kg/km	
12 × 2 × 0.75	5	0.8	1.6	0.3	1.7	31.3	1,075	GNK00/GLK00
12 × 2 × 1.0	5	0.8	1.6	0.3	1.8	32.1	1,104	GNK01/GLK01
12 × 2 × 1.5*	5	0.8	1.8	0.45	2.1	35.8	1,496	GNK02/GLK02
20 × 2 × 0.75	2	0.8	1.8	0.45	2	39.6	1,665	GNL00/GLL00
20 × 2 × 1.0	5	0.8	1.8	0.45	2.1	40.6	1,792	GNL01/GLL01
20 × 2 × 1.5*	5	0.8	2	0.45	2.2	43.9	2,157	GNL02/GLL02
20 × 2 × 1.5*	2	0.8	2	0.45	2.2	44.6	2,274	–

* Based on standard

Without approvals

Number of pairs and nominal 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	UKOOA Code
		mm	mm	mm	mm	mm	kg/km	
1 × 2 × 1.5*	2	0.8	1.2	0.3	1.4	14.8	282	–
2 × 2 × 2.5*	2	0.8	1.2	0.3	1.4	17.4	425	–
7 × 4 × 1.5*	5	0.8	1.7	0.45	1.9	35.7	1,601	–

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5 × 2 × 0.75	2	0.8	1.4	0.3	1.5	23.1	598	–
5 × 2 × 1.0*	2	0.8	1.4	0.3	1.6	24.1	631	–
5 × 2 × 1.5*	2	0.8	1.4	0.3	1.6	25.6	731	–
5 × 2 × 2.5*	2	0.8	1.4	0.6	1.6	28.2	921	–
10 × 2 × 0.75*	2	0.8	1.6	0.3	1.7	30.0	973	–
10 × 2 × 1.5*	2	0.8	1.6	0.3	1.8	33.4	1,204	–
10 × 2 × 2.5*	2	0.8	1.6	0.3	1.8	36.2	1,484	–
20 × 2 × 2.5*	2	0.8	1.8	0.45	2.1	47.8	2,725	–
27 × 2 × 0.75	5	0.8	1.9	0.45	2.2	45.0	2,178	–
27 × 2 × 1	5	0.8	2.0	0.45	2.2	46.2	2,363	–
27 × 2 × 1.5*	5	0.8	2.1	0.45	2.3	49.7	2,802	–
3 × 3 × 0.75	5	0.8	1.3	0.3	1.4	21.0	518	–
3 × 3 × 1	5	0.8	1.3	0.3	1.5	21.6	558	–
3 × 3 × 1.5*	5	0.8	1.4	0.3	1.6	23.3	655	–
7 × 3 × 0.75	5	0.8	1.4	0.3	1.6	28.1	911	–
7 × 3 × 1	5	0.8	1.5	0.3	1.7	29.1	1,002	–
7 × 3 × 1.5*	5	0.8	1.7	0.3	1.9	31.7	1,215	–
8 × 3 × 1.5*	2	0.8	1.8	0.45	2.1	35.2	1,540	–
12 × 3 × 0.75	5	0.8	1.7	0.45	1.9	36.0	1,525	–
12 × 3 × 1	5	0.8	1.7	0.45	2.0	36.9	1,654	–
12 × 3 × 1.5*	5	0.8	1.8	0.45	2.1	39.8	1,966	–
12 × 3 × 1.5*	2	0.8	1.8	0.45	2.1	40.2	2,022	–
3 × 4 × 0.75*	5	0.8	1.4	0.3	1.5	24.1	656	–
3 × 4 × 1*	5	0.8	1.4	0.3	1.6	24.8	703	–
3 × 4 × 1.5*	5	0.8	1.6	0.3	1.7	26.9	844	–
7 × 4 × 0.75*	5	0.8	1.6	0.3	1.7	31.8	1,143	–
7 × 4 × 1*	5	0.8	1.6	0.45	1.8	33.2	1,383	–
7 × 4 × 1.5*	5	0.8	1.7	0.45	1.9	35.7	1,601	–

* Based on standard

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