



# TCu/MGT/EPR/IS/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 colour on the insulation
Triples identification	Black, white and red with printed number of triples in contrasting colour on the insulation
Quads identification	Black, white, red and blue with printed number of quads in contrasting colour on the insulation
Screen	Individual 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 other colors can be provided
Cable marking e.g.	ELECTRIC CABLE "Type SW4 F1" "number of pairs or triples or quads" "x" "conductor size" "(I)" "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: $\leq 0.5\%$ 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)
$n \times 2 \times \text{mm}^2$		mm	mm	mm	mm	mm	kg/km	
$1 \times 2 \times 0.75$	5	0.8	1	0.3	1.2	12.9	221	GPF00/GMF00
$1 \times 2 \times 1.0$	5	0.8	1	0.3	1.2	13.1	225	GPF01/GMF01
$1 \times 2 \times 1.5^*$	5	0.8	1.2	0.3	1.4	14.6	279	GPF02/GMF02
$1 \times 2 \times 1.5^*$	2	0.8	1.2	0.3	1.4	14.6	279	–
$1 \times 2 \times 2.5^*$	2	0.8	1.3	0.3	1.4	15.7	332	GPF03/GMF03
$2 \times 2 \times 0.75^*$	5	0.8	1.2	0.3	1.4	14.9	312	–
$2 \times 2 \times 1.0^*$	5	0.8	1.2	0.3	1.4	15.1	324	–
$2 \times 2 \times 1.5^*$	2	0.8	1.3	0.3	1.5	16.4	386	–
$2 \times 2 \times 1.5^*$	5	0.8	1.3	0.3	1.5	16.3	404	–

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3 × 2 × 0.75	5	0.8	1.2	0.3	1.4	19.1	433	GPH00/GMH00
3 × 2 × 1	5	0.8	1.3	0.3	1.4	19.6	453	GPH01/GMH01
3 × 2 × 1.5*	5	0.8	1.3	0.3	1.5	21	522	GPH02/GMH02
3 × 2 × 2.5*	5	0.8	1.4	0.3	1.5	23	692	GPH03/GMH03
7 × 2 × 0.75	5	0.8	1.4	0.3	1.6	24.9	740	GPJ00/GMJ00
7 × 2 × 1.0	5	0.8	1.4	0.3	1.6	25.3	759	GPJ01/GMJ01
7 × 2 × 1.5*	5	0.8	1.4	0.3	1.6	26.9	866	GPJ02/GMJ02
12 × 2 × 0.75	5	0.8	1.6	0.3	1.8	31.3	1,129	GPK00/GMK00
12 × 2 × 1.0	5	0.8	1.7	0.45	1.9	32.9	1,296	GPK01/GMK01
12 × 2 × 1.5*	5	0.8	1.7	0.45	1.9	35	1,475	GPK02/GMK02
20 × 2 × 0.75	5	0.8	1.9	0.45	2.1	39.8	1,925	GPL00/GML00
20 × 2 × 1.0	5	0.8	1.9	0.45	2.2	40.8	2,070	GPL01/GML01
20 × 2 × 1.5*	5	0.8	2.0	0.45	2.3	43.9	2,444	GPL02/GML02
<b>n × 3 × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	
1 × 3 × 0.75	5	0.8	1	0.3	1.2	13.4	248	GPR00/GMR00
1 × 3 × 1.0	5	0.8	1.1	0.3	1.2	13.8	266	GPR01/GMR01
1 × 3 × 1.5*	5	0.8	1.2	0.3	1.4	15.1	314	GPR02/GMR02
1 × 3 × 1.5*	2	0.8	1.2	0.3	1.4	15.2	318	–
1 × 3 × 2.5*	2	0.8	1.4	0.3	1.5	16.8	394	GPR03/GMR03
<b>n × 4 × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	
1 × 4 × 0.75	5	0.8	1.1	0.3	1.2	14.5	291	GPX00/GMX00
1 × 4 × 1.0	5	0.8	1.1	0.3	1.2	14.8	307	GPX01/GMX01
1 × 4 × 1.5*	5	0.8	1.2	0.3	1.4	16.1	359	GPX02/GMX02
1 × 4 × 2.5*	2	0.8	1.4	0.3	1.5	17.9	471	GPX03/GMX03

\* 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 (Grey/Blue)
<b>n × 2 × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	

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2 × 2 × 2.5*	2	0.8	1.3	0.3	1.4	17.4	450	–
5 × 2 × 0.75*	2	0.8	1.4	0.3	1.6	23.3	641	–
5 × 2 × 1.5*	2	0.8	1.4	0.3	1.6	25.5	761	–
10 × 2 × 0.75*	2	0.8	1.6	0.3	1.8	30.2	1,054	–
24 × 2 × 1.5*	5	0.8	2.1	0.45	2.4	47.7	2,793	–
27 × 2 × 0.75	5	0.8	2.0	0.45	2.3	45.3	2,445	–
27 × 2 × 1	5	0.8	2.1	0.45	2.4	47.6	2,646	–
27 × 2 × 1.5*	5	0.8	2.2	0.45	2.5	50.1	3,120	–
<b>n × 3 × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	
3 × 3 × 0.75	5	0.8	1.3	0.3	1.5	21.0	552	–
3 × 3 × 1	5	0.8	1.3	0.3	1.5	21.4	583	–
3 × 3 × 1.5*	5	0.8	1.5	0.3	1.7	23.5	688	–
7 × 3 × 0.75	5	0.8	1.5	0.3	1.7	28.3	1,007	–
7 × 3 × 1.0	5	0.8	1.5	0.3	1.7	28.9	1,073	GPT01/ GMT01
7 × 3 × 1.5*	5	0.8	1.7	0.3	2.0	31.7	1,282	–
12 × 3 × 0.75	5	0.8	1.7	0.45	2.0	36.1	1,672	–
12 × 3 × 1.0	5	0.8	1.8	0.45	2.0	37.0	1,801	GPU01/ GMU01
12 × 3 × 1.5*	5	0.8	1.9	0.45	2.1	39.8	2,083	–
<b>n × 4 × mm<sup>2</sup></b>		<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/km</b>	
3 × 4 × 0.75	5	0.8	1.4	0.3	1.5	24.0	670	–
3 × 4 × 1	5	0.8	1.4	0.3	1.6	24.6	727	–
3 × 4 × 1.5*	5	0.8	1.6	0.3	1.7	26.7	854	–
7 × 4 × 0.75	5	0.8	1.6	0.3	1.7	31.6	1,229	–
7 × 4 × 1	5	0.8	1.6	0.45	1.8	33.0	1,450	–
7 × 4 × 1.5*	5	0.8	1.7	0.45	1.9	35.6	1,644	–

\* Based on standard

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