

## TFOI

Plain annealed copper conductors/ XLPE insulated/ lapped inner covering/Copper Wire Braid/ LSZH  
600/1000 Volts grade Standard sheath colour : Black, ZHAL, IEC60332, IEC60092-353

### ONE CORE

SIZE SQ.MM	CONDUCTOR DIAMETER MM	INSULATION THICKNESS MM	DIAM OF BRAID ARMOUR MM	SHEATH THICKNESS MM	NOMINAL OVERALL DIAMETER MM	CONDUCTOR RESISTANCE OHMS/KM	INSULATION RESISTANCE OHMS/KM	WEIGHT KG/KM	BATT PART NO
1.5	1.59	0.7	0.2	1.0	7.0	12.1	1010	80	-
2.5	2.01	0.7	0.2	1.0	7.4	7.41	850	90	-
4	2.55	0.7	0.2	1.0	8.1	4.61	700	110	-
6	3.12	0.7	0.2	1.0	8.6	3.08	600	140	-
10	4.05	0.7	0.2	1.1	9.8	1.83	480	190	-
16	4.80	0.7	0.2	1.1	10.5	1.15	410	250	-
25	6.10	0.9	0.2	1.2	12.4	0.828	420	370	-
35	7.2	0.9	0.2	1.2	13.6	0.524	360	470	-
50	8.3	1.0	0.3	1.3	15.6	0.387	350	650	-
70	10.0	1.1	0.3	1.4	17.7	0.268	320	880	14260
95	11.80	1.1	0.3	1.4	19.6	0.193	280	1150	-
120	13.20	1.2	0.3	1.5	21.4	0.153	270	1430	-
150	14.80	1.4	0.3	1.6	23.7	0.124	280	1720	-
185	16.35	1.6	0.3	1.7	25.7	0.099	290	2110	-
240	18.85	1.7	0.3	1.8	28.6	0.075	270	2720	-
300	20.90	1.8	0.3	1.9	31.0	0.060	260	3350	-



### TWO CORE

SIZE SQ.MM	CONDUCTOR DIAMETER MM	INSULATION THICKNESS MM	DIAM OF BRAID ARMOUR MM	SHEATH THICKNESS MM	NOMINAL OVERALL DIAMETER MM	CONDUCTOR RESISTANCE OHMS/KM	INSULATION RESISTANCE OHMS/KM	WEIGHT KG/KM	BATT PART NO Red & black cores	BATT PART NO Light blue & black cores
1.5	1.59	0.7	0.2	1.1	10.4	12.1	1010	140	14205	-
2.5	2.01	0.7	0.2	1.1	11.2	7.41	850	170	14206	-
4	2.55	0.7	0.2	1.2	12.6	4.61	700	220	-	-
6	3.12	0.7	0.2	1.2	13.7	3.08	600	280	-	14278
10	4.05	0.7	0.3	1.3	16.4	1.83	480	430	-	-
16	4.80	0.7	0.3	1.4	18.1	1.15	410	580	-	-
25	6.10	0.9	0.2	1.5	21.7	0.828	420	840	-	-
35	7.2	0.9	0.3	1.6	23.9	0.524	360	1080	-	-
50	8.3	1.0	0.3	1.7	26.8	0.387	350	1400	-	-
70	10.0	1.1	0.3	1.9	31.0	0.268	320	1920	-	-
95	11.80	1.1	0.3	2.0	34.8	0.193	280	2520	-	-

Max rated conductor temperature: 90 degrees centigrade

Core colours: 1 core: black

2 core: red & black (light blue & black also available)

IEC60092-353: electrical installation in ships, power cables,  
IEC60332: flame retardant

Type Approvals: ABS, Bureau Veritas & Lloyds Register



## TFOI (cont)

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## THREE CORE

SIZE SQ.MM	CONDUCTOR DIAMETER MM	INSULATION THICKNESS MM	DIAM OF BRAID ARMOUR MM	SHEATH THICKNESS MM	NOMINAL OVERALL DIAMETER MM	CONDUCTOR RESISTANCE OHMS/KM	INSULATION RESISTANCE OHMS/KM	WEIGHT KG/KM	BATT PART NO Red, yellow & blue cores	BATT PART NO Black, brown & blue cores
1.5	1.59	0.7	0.2	1.1	10.9	12.1	1010	170	14207	14238
2.5	2.01	0.7	0.2	1.2	11.9	7.41	850	210	14171	14239
4	2.55	0.7	0.2	1.2	13.3	4.61	700	270	14172	14172
6	3.12	0.7	0.3	1.3	15.1	3.08	600	380	14208	
10	4.05	0.7	0.3	1.4	17.5	1.83	480	550	14209	
16	4.80	0.7	0.3	1.4	19.1	1.15	410	750	14210	
25	6.10	0.9	0.3	1.6	23.2	0.828	420	1110	14211	
35	7.2	0.9	0.3	1.7	25.6	0.524	360	1450	-	14253
50	8.3	1.0	0.3	1.8	28.6	0.387	350	1890	14230	
70	10.0	1.1	0.3	1.9	32.9	0.268	320	2590	14243	
95	11.80	1.1	0.4	2.1	37.8	0.193	280	3540	-	
120	13.20	1.2	0.4	2.3	41.6	0.153	270	4420	-	
150	14.80	1.4	0.4	2.4	46.2	0.124	280	5330	-	
185	16.35	1.6	0.4	2.6	51.3	0.099	290	6560	-	
240	18.85	1.7	0.4	2.9	57.9	0.075	270	8540	-	

## FOUR CORE

SIZE SQ.MM	CONDUCTOR DIAMETER MM	INSULATION THICKNESS MM	DIAM OF BRAID ARMOUR MM	SHEATH THICKNESS MM	NOMINAL OVERALL DIAMETER MM	CONDUCTOR RESISTANCE OHMS/KM	INSULATION RESISTANCE OHMS/KM	WEIGHT KG/KM	BATT PART NO Red, yellow, blue & black	BATT PART NO Brown, white blue & black
1.5	1.59	0.7	0.2	1.2	11.9	12.1	1010	200	14212	
2.5	2.01	0.7	0.2	1.2	12.9	7.41	850	250	14213	
4	2.55	0.7	0.3	1.3	15.1	4.61	700	370	14214	
6	3.12	0.7	0.3	1.3	16.3	3.08	600	470	14215	14270
10	4.05	0.7	0.3	1.4	19.0	1.83	480	670	14216	
16	4.80	0.7	0.3	1.5	20.9	1.15	410	950	14217	
25	6.10	0.9	0.3	1.7	25.3	0.828	420	1410	14218	
35	7.2	0.9	0.3	1.8	28.2	0.524	360	1850	-	
50	8.3	1.0	0.3	1.9	31.5	0.387	350	2420	-	
70	10.0	1.1	0.4	2.1	37.1	0.268	320	3440	-	
95	11.80	1.1	0.4	2.3	41.8	0.193	280	4570	-	

Max rated conductor temperature: 90 degrees centigrade

Core colours: 3 core: red, yellow & blue (black, brown and blue also available)  
4 core: red, yellow, blue & black (black, blue, brown and white also available)

IEC60092-353: electrical installation in ships, power cables,  
IEC60332: flame retardant

Type Approvals: ABS, Bureau Veritas & Lloyd's Register



[www.batt.co.uk](http://www.batt.co.uk)

[battindustrial.sales@batt.co.uk](mailto:battindustrial.sales@batt.co.uk)

## TFOI (cont)

Plain annealed copper conductors/ XLPE insulated/ lapped inner covering/Copper Wire Braid/ LSZH  
600/1000 Volts grade Standard sheath colour : Black, ZHAL, IEC60332, IEC60092-353

NO OF CORES	SIZE SQ.MM	CONDUCTOR DIAMETER MM	INSULATION THICKNESS MM	DIAM OF BRAID ARMOUR MM	SHEATH THICKNESS MM	NOMINAL OVERALL DIAMETER MM	CONDUCTOR RESISTANCE OHMS/KM	INSULATION RESISTANCE OHMS/KM	WEIGHT KG/KM	BATT PART NO
5	1.5	1.59	0.7	0.2	1.2	12.9	12.1	1010	230	14244
5	2.5	2.01	0.7	0.3	1.3	14.7	7.41	850	330	
6	1.5	1.59	0.7	0.2	1.2	13.8	12.1	1010	260	
6	2.5	2.01	0.7	0.3	1.3	15.7	7.41	850	380	
7	1.5	1.59	0.7	0.2	1.2	13.8	12.1	1010	280	14219
7	2.5	2.01	0.7	0.3	1.3	15.7	7.41	850	400	
8	1.5	1.59	0.7	0.3	1.3	15.4	12.1	1010	350	
8	2.5	2.01	0.7	0.3	1.3	16.8	7.41	850	450	
9	1.5	1.59	0.7	0.3	1.3	16.4	12.1	1010	390	
9	2.5	2.01	0.7	0.3	1.4	18.1	7.41	850	510	
10	1.5	1.59	0.7	0.3	1.4	17.9	12.1	1010	450	
10	2.5	2.01	0.7	0.3	1.4	19.5	7.41	850	570	
12	1.5	1.59	0.7	0.3	1.4	18.4	12.1	1010	490	14220
12	2.5	2.01	0.7	0.3	1.5	20.2	7.41	850	640	
14	1.5	1.59	0.7	0.3	1.4	19.2	12.1	1010	540	
14	2.5	2.01	0.7	0.3	1.5	21.1	7.41	850	710	
16	1.5	1.59	0.7	0.3	1.5	20.3	12.1	1010	610	
16	2.5	2.01	0.7	0.3	1.5	22.2	7.41	850	790	
19	1.5	1.59	0.7	0.3	1.5	21.2	12.1	1010	680	14235
19	2.5	2.01	0.7	0.3	1.6	23.5	7.41	850	900	
20	1.5	1.59	0.7	0.3	1.5	21.8	12.1	1010	710	
20	2.5	2.01	0.7	0.3	1.6	23.8	7.41	850	950	
24	1.5	1.59	0.7	0.3	1.6	24.3	12.1	1010	860	
24	2.5	2.01	0.7	0.3	1.7	27.0	7.41	850	1150	
27	1.5	1.59	0.7	0.3	1.6	24.8	12.1	1010	920	
27	2.5	2.01	0.7	0.3	1.7	27.5	7.41	850	1240	
30	1.5	1.59	0.7	0.3	1.7	25.9	12.1	1010	1010	
30	2.5	2.01	0.7	0.3	1.8	28.6	7.41	850	1350	
33	1.5	1.59	0.7	0.3	1.7	26.8	12.1	1010	1080	
33	2.5	2.01	0.7	0.3	1.8	29.7	7.41	850	1460	
37	1.5	1.59	0.7	0.3	1.8	27.9	12.1	1010	1190	
37	2.5	2.01	0.7	0.3	1.9	30.9	7.41	850	1610	

Max rated conductor temperature: 90 degrees centigrade

Core colours: 5 core and above: white with black numbers

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IEC60332: flame retardant

Type Approvals: ABS, Bureau Veritas & Lloyd's Register

