

638TQ Cable

Application

Very heavy duty flexible trailing cable ideal for onsite applications where frequent flexing, trailing and heavy duty handling is required for portable or mobile equipment.

Technical Information

Conductor:	Class 5 - flexible tinned annealed copper
Insulation:	EPR (Ethylene Propylene Rubber)
Sheath:	CSP (Chlorosulphonated Polyethylene)
Sheath Colour:	Black
HOFR:	Heat and oil resistant • Flame retardant
Voltage Rating:	450/750V grade to BS6007 (where applicable)
Operating Temperature:	Maximum: 85°C • Minimum flexing: -20°C
Minimum Bending Radius:	6 x Ø for cables not exceeding 25mm 8 x Ø for cables exceeding 25mm

Conductor Identification

6381TQ - Single Core:	Black
6382TQ - Two Core:	Brown and blue
6383TQ - Three Core:	Brown, blue and green/yellow
6384TQ - Four Core:	Brown, blue, black and green/yellow
6385TQ - Five Core:	Brown, blue, 2 black and green/yellow
6386TQ - Six Core and Above:	White insulation with black numerals

Size mm ²	Diameter over conductor mm	RT of insulation mm	Diameter over core mm	Nominal overall diameter mm	Weight kg/km
Single Core 6381TQ					
4	2.6	1.0	4.7	7.8	105
6	3.6	1.0	5.7	9.0	130
10	4.6	1.2	7.1	10.8	200
16	5.7	1.2	8.2	12.1	275
25	7.1	1.4	10.0	14.1	400
35	8.5	1.4	11.4	15.9	520
50	10.3	1.6	13.6	18.5	730
70	12.4	1.6	15.7	21.0	980
95	14.5	1.8	18.2	23.9	1,270
120	16.0	1.8	19.7	25.8	1,570
150	18.0	2.0	22.1	28.6	1,960
185	20.0	2.2	24.5	31.5	2,380
240	23.0	2.4	27.9	35.1	3,100
300	26.0	2.6	31.3	38.7	3,790
400	30.0	2.8	35.7	43.5	4,880
500	33.5	3.0	39.6	47.8	6,070
630	37.0	3.0	43.1	51.5	7,460

638TQ Cable

FLEXIBLE RUBBER CABLES

Size mm ²	Nominal diameter over laid up cores mm	Nominal overall diameter mm	Weight kg/km
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Two Core 6382TQ

4	9.5	13.2	275
6	11.5	15.6	370
10	14.3	20.6	690
16	16.5	23.3	910
25	20.1	27.4	1290

Three Core 6383TQ

4	10.2	14.1	335
6	12.3	16.6	450
10	15.4	22.1	835
16	17.7	24.8	1,120
25	21.6	29.3	1,600
35	24.6	32.9	2,080
50	29.4	38.5	2,890
70	33.9	43.6	3,850
95	39.3	50.0	4,970
120	42.5	53.9	6,350
150	47.7	59.9	7,700
185	52.9	65.9	9,350
240	60.3	74.7	1,200
300	67.6	83.2	14,910

Four Core 6384TQ

4	11.4	15.5	420
6	13.8	18.5	565
10	17.2	24.1	1,020
16	19.8	27.1	1,380
25	24.2	32.5	2,140
35	27.6	36.5	2,610
50	32.9	42.6	3,650
70	38.0	48.6	4,880
95	44.0	56.0	6,390
120	47.7	59.9	7,750
150	53.6	66.8	9,780
185	59.3	73.5	11,900
240	67.6	83.2	15,330
300	75.8	92.8	19,030

Five Core 6385TQ

4	12.7	17.2	515
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Size mm ²	Nominal diameter over laid up cores mm	Nominal overall diameter mm	Weight kg/km
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Five Core 6385TQ

6	15.4	20.5	690
10	19.2	26.5	1240
16	22.2	30.1	1695
25	27.1	36.1	2470
35	30.9	40.5	3187
50	36.9	47.3	4450
70	42.6	54.0	5938
95	49.4	62.0	7924

Six Core 6386TQ

4	14.2	19.6	643
6	17.2	23.4	917
10	21.4	28.8	1,420
16	24.7	32.7	1,973
25	30.2	39.2	2,921
35	34.4	44.0	3,822
50	41.0	51.8	5,337

Seven Core 6387TQ

4	15.8	21.6	
6	19.1	25.7	1,089
10	23.8	31.6	1,706
16	27.5	35.7	2,330
25	33.6	43.2	3,560
35	38.3	48.5	4,576
50	45.8	57.4	6,436

Eight Core 6388TQ

4	17.3	23.5	908
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Ten Core 63810TQ

4	18.9	25.3	1,073
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Twelve Core 63812TQ

4	19.6	26.2	1,183
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Sixteen Core 63816TQ

4	22.1	29.3	1,505
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Eighteen Core 63818TQ

4	23.6	31.0	1,687
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Twenty Core 63820TQ

4	25.2	33.0	1,902
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For current ratings refer to IEE Regulations tables 4F1 and 4F2 to 4F3 on pages 122 to 128.