

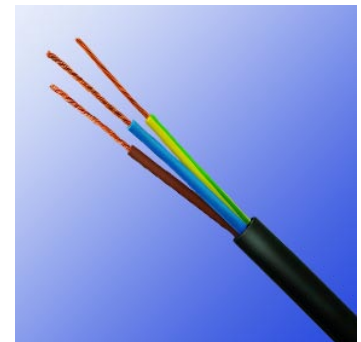
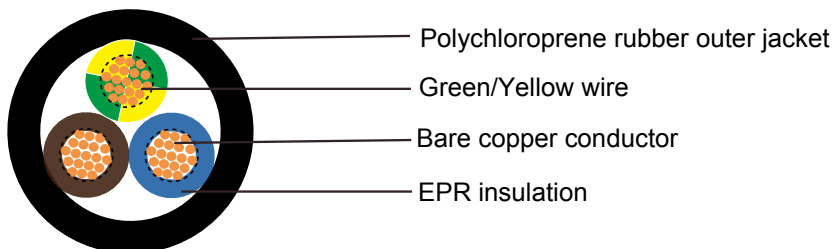


### 638TQ to BS 7919

#### Application and Description

These cables can be used either in dry, humid or wet places, in contact with oil or grease, in weather conditions and under medium mechanical stress. They are suitable for power supply to equipment in industrial plants, large size boilers, heating plates, portable lamps, electrical tools such as drilling machines, disk saws, portable engines and machines, building and farming equipments etc. These cables are also suitable for stationary equipments designed for wind-tower application. The particular cable construction and the special sheath materials have improved the cable torsion resistance (max150°/m), which is a key requirement for drop cables in wind-generators. The cables are also suitable on plaster in temporary buildings and builders huts, and wiring in machinery elevators. 638TQ is equivalent to harmonized code H07BN4-F.

#### Cable Construction



6383TQ

- Fine bare copper strands
- Stranding to BS 6360 Class 5 or IEC 60228 Class 5
- EPR(Ethylene Propylene Rubber) rubber insulation, Type GP1 to BS 7655
- CSP (Chlorosulphonated Polyethylene), Type RS4 to BS 7655 H.O.F.R. Heat and Oil Resistant Flame Retardant

#### Core Identification

- 1 core: Black
- 2 cores: Brown, Blue
- 3 cores: Green/Yellow, Brown, Blue
- 4 cores: Green/Yellow, Brown, Black, Grey
- 5 cores: Green/Yellow, Blue, Brown, Black, Grey
- 6 cores and above: white insulation with black numerals



### Technical Characteristics

- Working voltage: 450/750 volts
- Test voltage: 2500 volts
- Flexing bending radius: 6xOverall diameter
- Fixed bending radius: 4xOverall diameter
- Temperature Range: -40° C to +90° C
- Wind energy: -15° C to +90° C
- Maximum short circuit temperature: +250° C
- Flame retardant: IEC 60332.1C2/NF C 32-070
- Insulation resistance: 20 MΩxkm

### Cable Parameter

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
<b>6381TQ</b>					
16(30/30)	1x1.5	0.8	1.4	5.9	50
14(50/30)	1x2.5	0.9	1.4	6.5	65
12(56/28)	1x4	1	1.5	7.8	105
10(84/28)	1x6	1	1.6	9	130
8(80/26)	1x10	1.2	1.8	10.8	200
6(128/26)	1x16	1.2	1.9	12.1	275
4(200/26)	1x25	1.4	2	14.1	400
2(280/26)	1x35	1.4	2.2	15.9	520
1(400/26)	1x50	1.6	2.4	18.5	730
2/0(356/24)	1x70	1.6	2.6	21	980
3/0(485/24)	1x95	1.8	2.8	23.9	1270
4/0(614/24)	1x120	1.8	3	25.8	1570
300 MCM (765/24)	1x150	2	3.2	28.6	1960
350 MCM (944/24)	1x185	2.2	3.4	31.5	2380
500MCM(1225/24)	1x240	2.4	3.5	35.1	3100
-(1525/24)	1x300	2.6	3.6	38.7	3790
-(2013/24)	1x400	2.8	3.8	43.5	4880
-(1769/23)	1x500	3	4	47.8	6070
-(2257/23)	1x630	3	4.1	51.5	7460



## Industrial Cables to British Standard

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
<b>6382TQ</b>					
17(32/32)	2x1	0.8	1.3	8.2	93
16(30/30)	2x1.5	0.8	1.5	9.3	118
14(50/30)	2x2.5	0.9	1.7	10.9	172
12(56/28)	2x4	1	1.8	13.2	275
10(84/28)	2x6	1	2	15.6	370
8(80/26)	2x10	1.2	3.1	20.6	690
6(128/26)	2x16	1.2	3.3	23.3	910
4(200/26)	2x25	1.4	3.6	27.4	1290
<b>6383TQ</b>					
17(32/32)	3x1	0.8	1.4	8.9	114
16(30/30)	3x1.5	0.8	1.6	10	144
14(50/30)	3x2.5	0.9	1.8	11.7	210
12(56/28)	3x4	1	1.9	14.1	335
10(84/28)	3x6	1	2.1	16.6	450
8(80/26)	3x10	1.2	3.3	22.1	835
6(128/26)	3x16	1.2	3.5	24.8	1120
4(200/26)	3x25	1.4	3.8	29.3	1600
2(280/26)	3x35	1.4	4.1	32.9	2080
1(400/26)	3x50	1.6	4.5	38.5	2890
2/0(356/24)	3x70	1.6	4.8	43.6	3850
3/0(485/24)	3x95	1.8	5.3	50	4970
4/0(614/24)	3x120	1.8	5.6	53.9	6350
300 MCM (765/24)	3x150	2	6	59.9	7700
350 MCM (944/24)	3x185	2.2	6.4	65.9	9350
500MCM(1225/24)	3x240	2.4	7.1	74.7	1200
-(1525/24)	3x300	2.6	7.7	83.2	14910
<b>6384TQ</b>					
17(32/32)	4x1	0.8	1.5	9.8	139
16(30/30)	4x1.5	0.8	1.7	11	177
14(50/30)	4x2.5	0.9	1.9	12.8	257
12(56/28)	4x4	1	2	15.5	420
10(84/28)	4x6	1	2.3	18.5	565
8(80/26)	4x10	1.2	3.4	24.1	1020



AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
6(128/26)	4x16	1.2	3.6	27.1	1380
4(200/26)	4x25	1.4	4.1	32.5	2140
2(280/26)	4x35	1.4	4.4	36.5	2610
1(400/26)	4x50	1.6	4.8	42.6	3650
2/0(356/24)	4x70	1.6	5.2	48.6	4880
3/0(485/24)	4x95	1.8	5.9	56	6390
4/0(614/24)	4x120	1.8	6	59.9	7750
300 MCM (765/24)	4x150	2	6.5	66.8	9780
350 MCM (944/24)	4x185	2.2	7	73.5	11900
500MCM(1225/24)	4x240	2.4	7.7	83.2	15330
-(1525/24)	4x300	2.6	8.4	92.8	19030
<b>6385TQ</b>					
16(30/30)	5x1.5	0.8	1.8	12.1	226
14(50/30)	5x2.5	0.9	2	14.1	329
12(56/28)	5x4	1	2.2	17.2	515
10(84/28)	5x6	1	2.5	20.5	690
8(80/26)	5x10	1.2	3.6	26.5	1240
6(128/26)	5x16	1.2	3.9	30.1	1695
4(200/26)	5x25	1.4	4.4	36.1	2470
2(280/26)	5x35	1.4	4.7	40.5	3187
1(400/26)	5x50	1.6	5.1	47.3	4450
2/0(356/24)	5x70	1.6	5.6	54	5938
3/0(485/24)	5x95	1.8	6.2	62	7924
<b>6386TQ</b>					
12(56/28)	6x4	1	2.6	19.6	643
10(84/28)	6x6	1	3	23.4	917
8(80/26)	6x10	1.2	3.6	28.8	1420
6(128/26)	6x16	1.2	3.9	32.7	1973
4(200/26)	6x25	1.4	4.4	39.2	2921
2(280/26)	6x35	1.4	4.7	44	3822
1(400/26)	6x50	1.6	5.3	51.8	5337
<b>6387TQ</b>					
16(30/30)	7x1.5	0.8	2.6	14.7	385
14(50/30)	7x2.5	0.9	2.8	17.1	445
12(56/28)	7x4	1	2.8	21.6	773



## Industrial Cables to British Standard

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10(84/28)	7x6	1	3.2	25.7	1089
8(80/26)	7x10	1.2	3.8	31.6	1706
6(128/26)	7x16	1.2	4	35.7	2330
4(200/26)	7x25	1.4	4.7	43.2	3560
2(280/26)	7x35	1.4	5	48.5	4576
1(400/26)	7x50	1.6	5.7	57.4	6436
<b>6388TQ</b>					
12(56/28)	8x4	17.3	3	23.5	908
<b>63810TQ</b>					
12(56/28)	10x4	18.9	3.1	25.3	1073
<b>63812TQ</b>					
12(56/28)	12x4	19.6	3.2	26.2	1183
<b>63816TQ</b>					
12(56/28)	16x4	22.1	3.5	29.3	1505
<b>63818TQ</b>					
12(56/28)	18x4	23.6	3.6	31	1687
<b>63820TQ</b>					
12(56/28)	20x4	25.2	3.8	33	1902