

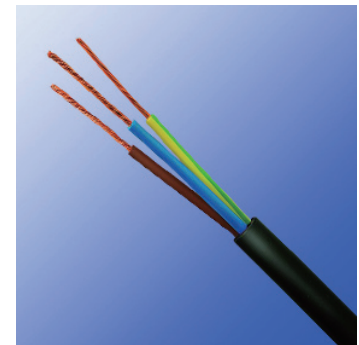
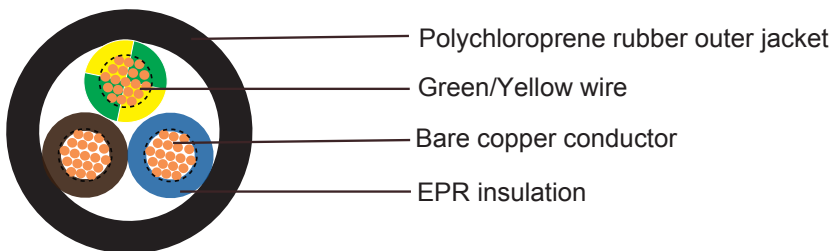


638TQ to BS 7919(New BS EN 50525-2-21)

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 CL-5 or IEC 60228 CL-5
- EPR(Ethylene Propylene Rubber) rubber EI7 insulation
- CSP(Chlorosulphonated Polyethylene) outer jacket EM7

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: -25° C to +90° C
- Maximum short circuit temperature: +250° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩxkm

Cable Parameter

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
6381TQ					
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
300MCM (765/24)	1x150	2	3.2	28.6	1960
350MCM (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



AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
6382TQ					
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
6383TQ					
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
6384TQ					
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



Industrial Cables to British Standard

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #x mm^2	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
8(80/26)	4x10	1.2	3.4	24.1	1020
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
6386TQ					
16(30/30)	6x1.5	0.8	2.5	14.7	288
14(50/30)	6x2.5	0.9	2.7	17.1	395
12(56/28)	6x4	1	2.9	20.2	670
6387TQ					
16(30/30)	7x1.5	0.8	2.6	15.7	385
14(50/30)	7x2.5	0.9	2.8	18.1	445
12(56/28)	7x4	1	3.1	21.6	773
63812TQ					
16(30/30)	12x1.5	0.8	2.9	19.1	556
14(50/30)	12x2.5	0.9	3.1	22.2	760
12(56/28)	12x4	1	3.5	20.2	1290
63818TQ					
16(30/30)	18x1.5	0.8	2.5	14.7	814
14(50/30)	18x2.5	0.9	2.7	17.1	1100
12(56/28)	18x4	1	2.9	26.2	1910
63824TQ					
16(30/30)	24x1.5	0.8	3.5	26.5	1080
14(50/30)	24x2.5	0.9	3.9	31.3	1460
63836TQ					
16(30/30)	36x1.5	0.8	3.8	30.2	1600
14(50/30)	36x2.5	0.9	4.3	36.5	2150