318*TQ Flexible Mains & Control Cable - EPR, CSP - 0.75mm² to 2.5mm²

Description

Our range of flexible TQ cables is designed for fixed wiring installations. It is a range of unarmoured cable designed to prevent the risk of electric shock in the event of fault or surge. Our TQ cable is suitable as a flexible marine cable, both on and offshore. This range of 300/500V (refer to core size in Characteristics) is heat and oil resistant, and flame retardant (HOFR).

Datasheet must be used in conjunction with 18th edition IET wiring regulations.

Key Features

Voltage Rating
300/500 Volts

Minimum Bending Radius
Fixed: 6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
fixed installation: -40°C to +90°C

Core Colours

2 core - Blue, Brown

3 core - Blue, Brown, Green, Yellow

4 core - Brown, Black, Grey, Green, Yellow

5 core - Blue, Brown, Black, Grey, Green, Yellow

6 core and above - Black with White numbers plus Green, Yellow

Standards

- Conforms to H05BN4-F
- BS EN/IEC 50363-2-1
- BS EN/IEC 60228
- BS EN 60332-1-2
- BS EN 50525-2-21

Construction

- **Conductor**: Class 5 Flexible Copper Conductor
- **Insulation**: Ethylene Propylene Rubber (EPR)
- **Outer Sheath**: Chlorosulphonated polyethylene (CSP)
- **Sheath Colour**: Black

QA Lab

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

318*TQ Flexible Mains & Control Cable - EPR, CSP - 0.75mm² to 2.5mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Gland Size
3182TQ/75	0.75	2	24/0.20	5.7	58	7.4
3183TQ/75WH	0.75	3	24/0.20	6.2	72	8.1
3184TQ/75WH	0.75	4	24/0.20	6.2	72	8.1
3182TQ1	1	2	32/0.20	6.1	80	8
3183TQ1	1	3	32/0.20	6.5	90	8.5
3184TQ1	1	4	32/0.20	7.1	110	9.3
3181TQ1/5	1.5	1	30/0.25	5.7	38	7.1
3182TQ1/5	1.5	2	30/0.25	7.6	115	7.6
3183TQ1/5	1.5	3	30/0.25	8	135	10.4
3184TQ1/5	1.5	4	30/0.25	9	170	11.6
3185TQ1/5	1.5	5	30/0.25	11.2	200	14.4
3186TQ1/5	1.5	6	30/0.25	13.4	335	17.2
3187TQ1/5	1.5	7	30/0.25	14.6	366	18.2
3180/12TQ1/5	1.5	12	30/0.25	17.6	410	22.4
3180/18TQ1/5	1.5	18	30/0.25	19.8	570	24.3
3180/19TQ1/5	1.5	19	30/0.25	21.4	710	26.7
3180/27TQ1/5	1.5	27	30/0.25	25.3	920	25.3
3181TQ2/5	2.5	1	50/0.25	6.3	41	7.9
3182TQ2/5	2.5	2	50/0.25	9	160	11.6
3183TQ2/5	2.5	3	50/0.25	9.6	195	12.4
3184TQ2/5	2.5	4	50/0.25	10.7	245	13.8
3185TQ2/5	2.5	5	50/0.25	13.3	300	17
3187TQ2/5	2.5	7	50/0.25	17.2	424	21
3180/12TQ2/5	2.5	12	50/0.25	20.6	600	26.2
3180/16TQ2/5	2.5	16	50/0.25	23.8	780	28.4
3180/20TQ2/5	2.5	20	50/0.25	26.4	1050	31.2
3180/27TQ2/5	2.5	27	50/0.25	30.1	1390	35.4
3180/37TQ2/5	2.5	37	50/0.25	35	1720	40.9

TABLE 4F2B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 90 °C

Conductor cross-sectional area (mm^2)	Two-core cable or 2 x Single core cables DC (mV/Nm)	2 core cable, single-phase AC (mV/Nm)			1 x 3 core, 4 core or 5 core cable, three-phase AC (mV/Nm)			2 single-core cables, touching Single-phase AC* (mV/Nm)		
		r	x	z	r	x	z	r	x	z
4	13.20	13.20			11.10			-		
6	8.50	8.50			7.40			-		
10	5.10	5.10			4.40			-		
16	3.20	3.20			2.70			-		
25	2.03	2.03	0.175	2.04	1.73	0.150	1.73	-	-	-
35	1.420	-	-	-	1.22	0.150	1.23	1.44	0.21	1.46
50	1.000	-	-	-	0.91	0.145	0.93	1.00	0.21	1.02
70	0.710	-	-	-	0.62	0.140	0.64	0.71	0.20	0.73
95	0.540	-	-	-	0.47	0.135	0.49	0.54	0.195	0.57
120	0.420	-	-	-	0.37	0.135	0.39	0.42	0.190	0.46
150	0.340	-	-	-	0.29	0.130	0.32	0.34	0.190	0.39
185	0.270	-	-	-	0.24	0.130	0.27	0.27	0.190	0.33
240	0.210	-	-	-	0.188	0.130	0.23	0.210	0.185	0.28
300	0.167	-	-	-	0.147	0.125	0.195	0.173	0.180	0.25
400	0.127	-	-	-	-	-	-	0.132	0.175	0.22
500	0.100	-	-	-	-	-	-	0.107	0.170	0.20
630	0.074	-	-	-	-	-	-	0.085	0.170	0.190

NOTES:

1 The voltage drop figures given above are based on a conductor operating temperature of 90 °C and are therefore not accurate when the operating temperature is in excess of 90 C. In the case of the 180 °C cables with a conductor temperature of 150 °C the above resistive values should be increased by a factor of 1.2.

2 *A larger voltage drop will result if the cables are spaced.