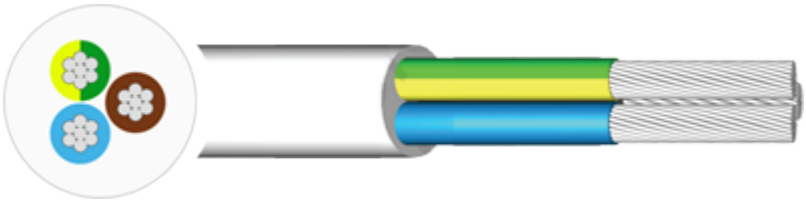
CLEVELAND CABLE COMPANY

Silicon Flexible Cable VDE 0250 PT816 - 0.75mm - 2.5mm



The silicone flexible cable is mainly used in food processing plants and food processing related machinery. It can also be used in robotic applications where a higher temperature rating is required.

Key Features

Installation Guidelines
Should not be installed at temperatures below 0°C or above +60°C

Voltage Rating
300/500 Volts

Minimum Bending Radius
As Per Manufacturers Datasheet

Temperature Limits
Temperature Range: -60°C to +180°C

Construction

- **Conductor**: Flexible Tinned Annealed Copper Conductors
- **Insulation**: Silicone
- **Sheath**: Silicone

Standards

- VDE 0250 PT816

Core Colours

2 core - Brown, Blue

3 core - Brown, Black, Grey

4 core - Brown, Black, Grey, Blue

5 core - Brown, Black, Grey, Green Yellow

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

Silicon Flexible Cable VDE 0250 PT816 - 0.75mm - 2.5mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Gland Size
BIHF2X1	0.75	2	32/0.20	6.7	59.9	20/16
BIHF2X/75	0.75	2	24/0.20	6.5	53.4	20/16
BIHF3X/75	0.75	3	24/0.20	6.9	63.7	20/16
BIHF4X/75	0.75	4	24/0.20	7.9	83.6	20/16
BIHF3X1	1	3	32/0.20	7.5	78.3	20/16
BIHF4X1	1	4	32/0.20	8.1	94.6	20S
BIHF2X1/5	1.5	2	30/0.25	7.6	82	20/16
BIHF3X1/5	1.5	3	30/0.25	8	98	20/16
BIHF4X1/5	1.5	4	30/0.25	8.8	122	20S
BIHF5X1/5	1.5	5	30/0.25	9.6	148	20S
BIHF2X2/5	2.5	2	50/0.25	8.9	135	20S
BIHF3X2/5	2.5	3	50/0.25	9.1	152	20S
BIHF4X2/5	2.5	4	50/0.25	10.1	188	20S

Multi core non-armoured 90 °C and 180°C thermosetting insulated flexible cables with sheath Reproduced from BS7671:2018 Wiring Regulations

TABLE 4F2B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 90 °C

Conductor cross-sectional area	Two-core cable or 2 x Single core cables DC	2 core cable, single-phase AC			1 x 3 core, 4 core or 5 core cable, three-phase AC			2 single-core cables, touching Single-phase AC*		
(mm^2)	(mV/Nm)	(mV/Nm)			(mV/Nm)			(mV/Nm)		
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			-		
		r	x	z	r	x	z	r	x	z
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.

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