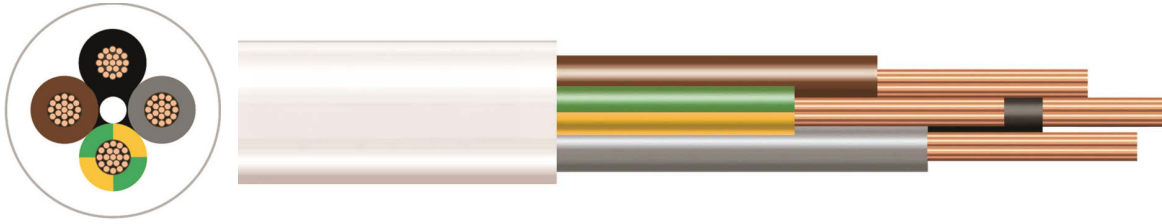



309-Y / H05V2V2-F PVC FLEXIBLE CABLE



Introducing our 309*Y Flexible PVC Cable, designed for internal use in high-temperature zones. With a temperature range from -5°C to +90°C, it's perfect for powering appliances like heaters and for internal wiring in lighting applications.

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	PVC
OUTERSHEATH	PVC
OUTERSHEATH COLOUR	White
RATED VOLTAGE	500V
CORE IDENTIFICATION	2 Core: Blue, Brown 3 Core: Green/Yellow, Blue, Brown 4 Core: Green/Yellow, Brown, Black, Grey 5 Core: Green/Yellow, Brown, Black, Grey, Blue
MINIMUM BENDING RADIUS	Overall Bending Radius 6x
OPERATING TEMPERATURE	90°C
STANDARDS	EN 50525-2-11, ROHS 2011/65/UE, EN50575:2014 + A1
APPROVALS	

SPECIFICATION DATA

DIMENSIONS

BATT Part No	Cores	Nominal cross sectional area of conductor	Radial thickness of insulation	Nominal thickness of oversheath	Approx overall diameter	Weight
43533	2	0.75	0.6	0.8	6.2	55
43535	3	0.75	0.6	0.8	6.6	66
43357	3	1	0.6	0.8	7	78
43031	3	1.5	0.7	0.9	8.2	107
43086	3	2.5	0.8	1.1	10	164
43539	4	0.75	0.6	0.8	7.2	81
43704	4	1	0.6	0.9	7.8	98
43552	4	1.5	0.7	1	9.3	140
43342	4	2.5	0.8	1.1	10.9	202
43360	5	0.75	0.6	0.9	8	100
43553	5	1	0.6	0.9	8.6	120
43543	5	1.5	0.7	0.9	10.3	172

RATING TABLES

**TABLE 4F3A - Flexible cables,
non-armoured
(COPPER CONDUCTORS)**

**COPPER
CONDUCTORS**

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor cross-sectional area	Current-carrying capacity		Maximum mass supportable by twin flexible cable (see Regulations 522.7.2 and 559.5.2)
	Single-phase AC	Three-phase AC	
1 (mm ²)	2 (A)	3 (A)	4 (kg)
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

Where cable is on a reel see the notes to Table 4F1A.

RATING FACTOR FOR AMBIENT TEMPERATURE

60 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 °C	40 °C	45 °C	50 °C	55 °C
Rating factor	0.91	0.82	0.71	0.58	0.41

90 °C thermoplastic or thermosetting insulated cable:

Ambient temperature	35 to 50 °C	55 °C	60 °C	65 °C	70 °C
Rating factor	1.0	0.96	0.83	0.67	0.47

110 °C flexible cable:

Ambient temperature	35 to 80 °C	85 °C	90 °C	95 °C	100 °C	105 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

150 °C flexible cable:

Ambient temperature	35 to 120 °C	125 °C	130 °C	135 °C	140 °C	145 °C
Rating factor	1.0	0.96	0.85	0.74	0.60	0.42

Glass fibre flexible cable:

Ambient temperature	35 to 50 °C	155 °C	160 °C	165 °C	170 °C	175 °C
Rating factor	1.0	0.92	0.82	0.71	0.57	0.40

TABLE 4F3B

VOLTAGE DROP (per ampere per metre): Conductor operating temperature: 60 °C

Conductor cross-sectional area	DC or single-phase AC	Three-phase AC
1	2	3
(mm ²)	(mV/A/m)	(mV/A/m)
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

NOTE: * The tabulated values above are for 60 °C thermoplastic or thermosetting insulated flexible cables and for other types of flexible cable they are to be multiplied by the following factors:

For 90 °C thermoplastic or thermosetting insulated	1.09
110 °C	1.17
150 °C	1.31
185 °C glass fibre	1.43

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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