

318-Y-Flex Cable

Application: Designed for use in household appliances such as washing machines, vacuums, spin dryers and refrigerators. The 318-Y Flex has class 5 copper conductors, PVC insulation and a black or white PVC sheath. The difference between the 218-Y and the 318-Y is the voltage rating - 318-Y has a rating of 300/500V. The harmonisation code for 318-Y Cable is H05VV-F. 318-Y is often known as Extension Lead Cable or Trailing Socket Cable.

Technical Data:



1	Conductor	Class 5 flexible copper conductors BS EN 60228:2005 (previously BS6360)
2	Insulation	PVC (Polyvinyl Chloride) to BS6755
3	Sheath	PVC (Polyvinyl Chloride) to BS6755

Voltage Rating 300/500V

Conductor Operating Temperature 0°C to +60°C

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



Sizes and Dimensions - 2 Cores

Part No	No Cores	Conductor Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Overall Diameter (mm)	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω /Km) at 20°C
3182Y 0.75	2	0.75	30.19	6.2	54.2	26
3182Y 1.0	2	1.0	32.17	6.4	60.5	19.5
3182Y 1.5	2	1.5	43.01	7.4	82.3	13.3
3182Y 2.0	2	2.0	66.47	9.2	129.1	7.98

Sizes and Dimensions - 3 Cores

Part No	No Cores	Conductor Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Overall Diameter (mm)	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω /Km) at 20°C
3183Y 0.75	3	0.75	34.212	6.6	65	26
3183Y 1.0	3	1.0	36.32	6.8	73.1	19.5
3183Y 1.5	3	1.5	51.53	8.1	104.4	13.3
3183Y 2.5	3	2.5	78.54	10	163	7.98
3183Y 4.0	3	4.0	100.29	11.3	224	4.95

Sizes and Dimensions - 4 Cores

Part No	No Cores	Conductor Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Overall Diameter (mm)	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω /Km) at 20°C
3184Y 0.75	4	0.75	39.59	7.1	77.7	26
3184Y 1.0	4	1.0	45.36	7.6	93.0	19.5
3184Y 1.5	4	1.5	63.62	9.0	131.7	13.3
3184Y 2.5	4	2.5	93.31	10.9	199.6	7.98

Sizes and Dimensions - 5 Cores

Part No	No Cores	Conductor Cross Section Area (mm ²)	Cable Cross Section Area (mm ²)	Overall Diameter (mm)	Nominal Weight (kg/km)	Resistance of Copper Conductor (Ω /Km) at 20°C
3185Y 0.75	5	0.75	50.265	8	97.3	26
3185Y 1.0	5	1.0	54.106	8.3	111.7	19.5
3185Y 1.5	5	1.5	78.54	10.0	163.1	13.3
3185Y 2.5	5	2.5	128.68	12.8	265	7.98

The information contained within this datasheet is for guidance only. Please note the actual cable dimensions may vary due to manufacturing tolerance.



Table 4F3A - Flexible Cable
Non Armoured
(Copper Conductores)

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

Conductor Cross - Sectional Area (mm ²)	Current Carrying Capacity		Maximum mass supported by Twin flexible cable (see regulations 522.7.2 and 559.6.1.5) (kg)
	Single - Phase a.c. (A)	Three - Phase a.c. (A)	
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

The above table is in accordance with Table 4F3A of the 17th Edition of IET Wiring Regulations

Rating Factors 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

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 150°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 meter)

Conductor Operating Temperature: 60°C

Conductor Cross - Sectional Area (mm ²)	d.c or Single - Phase a.c. (mV/A/m)	Three - Phase a.c. 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

This table above is in accordance with Table 4F3B of the 17th Edition of IET Wiring Regulations

Note: *The tabulated values above are for the 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	1.09
	150°C	1.31
	185°C Glass Fibre	1.43