

# ELECTRICAL CHARACTERISTICS

PVC INSULATED PVC SHEATHED FLEXIBLE CORD

## ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY, Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.5	3	3	2
0.75	6	6	3
1	10	10	3
1.25	13	-	3
1.5	16	16	5
2.5	25	20	5
4	32	25	5
6	40	32	-

The above table is based on Table 4F3A of the 17th Edition of IEE Wiring Regulations

## VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.5	93	80
0.75	62	54
1	45	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10
6	8	7

Conductor operating temperature: 60°C

The above table is based on Table 4F3B of the 17th Edition of IEE Wiring Regulations.

## DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

AIR TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is based on Table 4F3A of the 17th Edition of IEE Wiring Regulations

## PVC INSULATED PVC SHEATHED FLEXIBLE CORD

### Current Carrying Capacity and Mass Supportable

SIZE	CURRENT CARRYING CAPACITY		Voltage Drop per 100 feet		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD
	Amps		Single-Phase AC	Three-Phase AC	
No. / Inch	Single-Phase AC	Three-Phase AC			Single-Phase AC
23/0.0076	6	6	11	9.4	5.5
40/0.0076	13	13	14	12	10
70/0.0076	18	18	12	10	10
110/0.0076	24	24	9.6	8.3	10
162/0.0076	31	31	9.4	7.3	10

The above table is based on BS 2004

### DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

AIR TEMPERATURE	25°C	35°C	40°C	55°C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1.06	0.94	0.87	0.79	0.71	0.61	0.50	0.35

The above table is based on Table 4F3A of the 17th Edition of IEE Wiring Regulations