

Battery Cable

-Flexible PVC High Current Power Cable



Construction

Conductor: Plain annealed copper Class 5

Insulation: PVC

Sheath Color: Black, Red



Applications

Engineered for high-current DC interconnection, this battery cable serves as the critical link between battery terminals, starter motors, alternators, and grounding points. Its highly flexible conductor design facilitates installation in tight, complex routings, while the robust outer jacket offers superior resistance to abrasion, acids, oils, and extreme temperature variations. Ideally suited for automotive, marine, material handling equipment (forklifts), and uninterrupted power supply (UPS) systems where reliable power delivery under vibration is paramount.

Standards

IEC 60228 (Conductor)

IEC 60332-1-2 (Flame Retardant)

ISO 6722 / SAE J1127

Specification

Test Voltage	2.5KV/5Min
Temperature Range	-10°C to +90°C
Max. temperature during short circuit ($\leq 5S$)	160
Min. Bending radius	6x cable \varnothing ;

Technical Data

Dimensions & Construction

Cable Size (AWG)	Diameter (inches / mm)	Cross-Sectional Area (mm ²)
10 Gauge	0.1019 / 2.59	5.26
8 Gauge	0.1285 / 3.26	8.37
6 Gauge	0.1620 / 4.11	13.3
4 Gauge	0.2043 / 5.19	21.2
2 Gauge	0.2576 / 6.54	33.6
1 Gauge	0.2893 / 7.35	42.4
1/0 Gauge	0.3249 / 8.25	53.5
2/0 Gauge	0.3648 / 9.27	67.4
3/0 Gauge	0.4096 / 10.40	85
4/0 Gauge	0.4600 / 11.68	107.2

Electrical Characteristics

Cable Size (AWG)	Max. DC Resistance @ 20° C (/km)*	Ampacity (Amps)	Max Length at 50A(12V, 2% Drop)	Max Length at 100A(12V, 2% Drop)
10 Gauge	3.28	30-40	7.5 ft	3.7 ft
8 Gauge	2.06	40-50	9.4 ft	4.7 ft
6 Gauge	1.29	55-70	11.8 ft	5.9 ft
4 Gauge	0.81	70-100	18.8 ft	9.4 ft
2 Gauge	0.51	100-130	29.8 ft	14.9 ft
1 Gauge	0.4	130-150	37.6 ft	18.8 ft
1/0 Gauge	0.32	150-170	47.4 ft	23.7 ft
2/0 Gauge	0.25	170-200	59.6 ft	29.8 ft
3/0 Gauge	0.2	200-230	75.2 ft	37.6 ft
4/0 Gauge	0.16	230-260	94.8 ft	47.4 ft

P/N Example: BC-RD-004-PVC [Type: BC=Battery Cable] - [Color: RD=Red, BK=Black] - [Size: 004=4AWG] - [Jacket: PVC]