Features

- PVC flexible battery cables, are designed for environments requiring high flexibility and reliability at sub-zero temperatures.
- Fine stranded copper conductors provide excellent current capacity, while the PVC sheath resists oils, chemicals, and fuels.
- Min Bend Radius – <6x OD

Standards (Compliance / Certification):

- BS EN 60228:2005 – Bare Copper
- ISO6722-1:2011
- IEC60332.1.2 – Flame Retardancy

RS PRO PVC Battery / Extra Flexible 35mm²

RS Stock No.: 907589, 907590, 907592, 907593, 907594, 907595



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

PVC Battery / Extra Flexible 35mm² Cable

Product Description

PVC flexible battery cables are designed for environments requiring high flexibility and reliability at sub-zero temperatures. They are widely used on construction sites for temporary power, portable tools, and lighting; in automotive and transport systems for battery leads, jumpers, and charging circuits; and in marine vessels for battery banks and starter motors. Industrial machinery and renewable energy systems also use them for flexible, high-current connections. Fine stranded copper conductors provide excellent current capacity, while the PVC sheath resists oils, chemicals, and fuels.

General Specifications

Number of Strands	451
Conductor Strand Type	Class 5 Conductor
Insulator Colour	Black, Red
Conductor Material	Bare Copper
Insulator Material	PVC
Fire Behaviour	IEC60332.1.2 Flame Retardancy

Electrical Specifications

Voltage Rating	60v Max DC
Current Rating	240.0A
Conductor Resistance (at 20°C)	0.00056 Ω/m

Mechanical Specifications

Length	10m, 30m, 100m
Outer Diameter	11.75mm
Cross Sectional Area	35mm²
Size of Strands	0.3mm
Core Strands	451

Operation Environment Specifications

Operating Temperature	-30° to +70°C

Approvals

Compliance/Certifications	ISO6722-1:2011, BS EN 60228:2005, IEC60332.1.2

Similar Products

Parameters	16mm²	20mm²	25mm²	35mm²
MPN/Article	PVC16	PVC20	PVC25	PVC35
Number of Strands	206	266	322	451
Conductor Strand Type	Class 5 Conductor	Class 5 Conductor	Class 5 Conductor	Class 5 Conductor
Insulator Colour	See general specification	See general specification	See general specification	See general specification
Conductor Material	Bare Copper	Bare Copper	Bare Copper	Bare Copper
Insulator Material	PVC	PVC	PVC	PVC
Length	10m,30m,100m	10m,30m,100m	10m,30m,100m	10m,30m,100m
Outer Diameter	8.25mm	8.95mm	10.05mm	11.75mm
Cross Sectional Area	16mm²	20mm²	25mm²	35mm²
Size of Strands	0.3mm	0.3mm	0.3mm	0.3mm
Voltage Rating	60v Max DC	60v Max DC	60v Max DC	60v Max DC
Current Rating	110.0A	135.0A	170.0A	240.0A
Conductor Resistance (at 20°C)	0.00126 Ω/m	0.00096 Ω/m	0.00077 Ω/m	0.00056 Ω/m
Fire Behaviour	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy

PVC Battery / Extra Flexible 35mm² Cable

Parameters	40mm²	50mm²	60mm²	70mm²
MPN/Article	PVC40	PVC50	PVC60	PVC70
Number of Strands	539	640	805	905
Conductor Strand Type	Class 5 Conductor	Class 5 Conductor	Class 5 Conductor	Class 5 Conductor
Insulator Colour	See general specification	See general specification	See general specification	See general specification
Conductor Material	Bare Copper	Bare Copper	Bare Copper	Bare Copper
Insulator Material	PVC	PVC	PVC	PVC
Length	10m, 30m, 50m	10m, 30m, 50m	10m, 30m, 50m	10m, 30m, 50m
Outer Diameter	12.7mm	13.3mm	14.95mm	15.45mm
Cross Sectional Area	40mm²	50mm²	60mm²	70mm²
Size of Strands	0.3mm	0.3mm	0.3mm	0.3mm
Voltage Rating	60v Max DC	60v Max DC	60v Max DC	60v Max DC
Current Rating	300.0A	345.0A	415.0A	485.0A
Conductor Resistance (at 20°C)	0.00050 Ω/m	0.00039 Ω/m	0.00033 Ω/m	0.00029 Ω/m
Fire Behaviour	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy

Parameters	95mm²	120mm²	150mm²
MPN/Article	PVC95	PVC120	PVC150
Number of Strands	684	888	1184
Conductor Strand Type	Class 5 Conductor	Class 5 Conductor	Class 5 Conductor
Insulator Colour	See general specification	See general specification	See general specification
Conductor Material	Bare Copper	Bare Copper	Bare Copper
Insulator Material	PVC	PVC	PVC
Length	10m, 50m	10m, 50m	10m, 50m
Outer Diameter	17.9mm	19.7mm	22.35mm
Cross Sectional Area	95mm²	120mm²	150mm²
Size of Strands	0.4mm	0.4mm	0.4mm
Voltage Rating	60v Max DC	60v Max DC	60v Max DC
Current Rating	500.0A	600.0A	700.0A
Conductor Resistance (at 20°C)	0.00020 Ω/m	0.00015 Ω/m	0.00011 Ω/m
Fire Behaviour	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy	IEC60332.1.2 Flame Retardancy

The conductor specifications shown are representative configurations; actual cable strand may differ slightly, but will meet the resistance values shown. Nominal current amperage ratings are provided as a guide only, and can vary depending on the application, condition and environmental factors. If in doubt, please consult a qualified electrician.