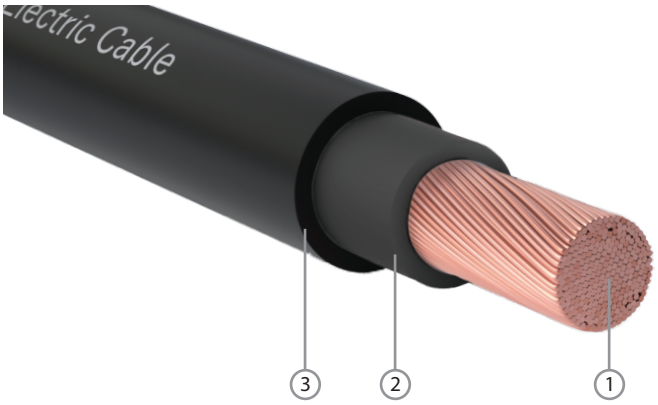
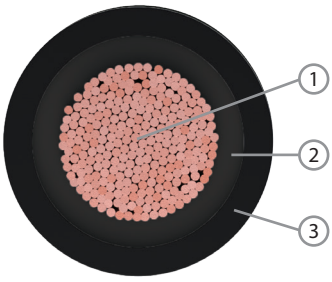
WELDING CABLE

CU / PVC / PVC (SINGLE CORE)

PVC Elastomer Insulated, PVC Elastomer Sheathed Welding Cable, 100/100V, IEC60502-1





Component
1. Plain Annealed Flexible Copper Wire (Class 5)
2. PVC Elastomer Compound
3. PVC Elastomer Compound

CONSTRUCTION

Conductor:	Plain Annealed Flexible Copper, Class 5 Stranded Circular
Insulation:	PVC Elastomer Compound
Insulation Colour:	Black
Outer Sheath:	PVC Elastomer Compound
Outer Sheath Colour:	Black / Other colour upon request

ELECTRICAL CHARACTERISTICS

Operating Voltage:	100/100V
Operating Temperature:	-5°C to 70°C
Final Short Circuit Temperature:	160°C
Test Voltage:	1kV for 15 minutes

REFERENCE STANDARDS

Design Specification:	IEC60502-1
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-1, BS EN 60332-1

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm^2):	15

	Nominal Conductor Area (mm^2)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Overall Sheath Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Maximum Conductor Resistance at 20°C (Ω/km)	Current Rating at 25°C (Single Cycle Operation Over Maximum Period of 5 Minutes)			
								100% Duty Cycle (A)	85% Duty Cycle (A)	60% Duty Cycle (A)	35% Duty Cycle (A)
SINGLE CORE	1 x 10	4.3	1.0	1.4	9.3	158	1.91	100	103	108	122
	1 x 16	5.2	1.0	1.4	10.2	233	1.21	135	145	175	230
	1 x 25	6.6	1.2	1.4	12.0	336	0.780	180	195	230	300
	1 x 35	7.8	1.2	1.4	13.2	409	0.554	225	245	290	375
	1 x 50	9.8	1.4	1.4	15.8	603	0.386	285	305	365	480
	1 x 70	11.0	1.4	1.4	17.0	803	0.272	355	385	460	600
	1 x 95	13.2	1.6	1.5	19.8	1049	0.206	430	470	560	730
	1 x 120	14.8	1.6	1.5	21.4	1296	0.161	500	540	650	850
	1 x 150	16.5	1.8	1.6	23.7	1644	0.129	580	630	750	980
	1 x 185	18.3	2.0	1.7	26.1	1951	0.106	665	720	860	1120
	1 x 240	21.0	2.2	1.8	29.4	2540	0.0801	780	850	975	1250

Note: Special features such as anti-termite, anti-rodent, anti-vermin, flame retardant, UV resistant and/or oil resistant characteristics are available upon request.