

0361TQ Welding Cable

Application

Welding cable suitable for the transmission of high currents from the welding apparatus to the welding tool. Suitable for flexible use under adverse conditions such as automobile manufacturing, conveyors and assembly lines. Also for use in machine tool and ship manufacturing.

Technical Information

Conductor:	Class 6 - extra flexible plain copper conductors to BS EN 60228: 2005 (previously BS6360) flexible class 5 for 120mm ² and above
Separator:	PETP (Polyethylene Terephthalate)
Insulation:	EPR (Ethylene Propylene Rubber)
Sheath:	CSP (Chlorosulphonated Polyethylene) - BS638
Sheath Colour:	Orange, yellow or black
Voltage Rating:	100V (450V for non-welding applications if protected from mechanical damage)
Operating Temperature:	Maximum: 85°C • Minimum Flexing: -20°C
Minimum Bending Radius:	6 x Ø

Current Ratings

Typical guidance values for different welding processes are as follows:

Fully automatic Welding:	100%
Semi-automatic Welding:	65% - 85%
Manual Welding:	30% - 60%
Very infrequent or Occasional Welding:	20%

Correction Factors

Cable operating temperature also varies according to the prevailing ambient temperature. These cables are designed to give optimum performance up to an operating temperature of 85°C at an ambient temperature of 25°C. The reduction factors for increased ambient temperature are:

Ambient Temperature:	30°C	35°C	40°C	45°C	50°C	55°C
Correction Factor:	0.96	0.91	0.87	0.82	0.76	0.79

Flexible aluminium conductors are available upon request.

Size mm ²	Nominal overall diameter mm	Weight kg/km
16	11.5	230
25	13	315
35	14.5	410
50	17	580
70	19.5	800
95	22	1,050
120	24	1,400
150	25.5	1,360
185	27.9	1,944
240	31.5	2,534

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