Units 3—5 & 7 Venture Works
Charleywood Road
Knowsley Industrial Estate North
Merseyside, L33 7SG
Tel: +44 (0)151 548 5281
enq@globeheat.com
www.globeheat.com

Data Sheet

English (EN)

Product: Quad Cable Set 30m Long C/W 5 pin plug and twistlocks

Product Code: GHT 6201

Product Code	Copper Cable (mm^2)	Length (m)	Current Rating (Amps)	Weight (kg)
GHT 6201	16	30	135	27

The quad cable set consists of four lengths of heat and oil resistant flame retardant (HOFR), double insulated copper cable, three of the lengths are made of black copper cable and one length from orange copper cable. There are three 60 amp female twistlocks and one 300 amp male twistlock at one end and a five pin 415 volt plug attached at the other end for connection to the mains or distribution unit.

Technical Information for Double Insulated Copper Cable:

Standard
BS638 Part 4

Conductor
Extra flexible class 6 tinned copper cable conductors to BS6 360 (flexible class 5 for $120mm^2$ and above)

Separator
PETP tape separator (or paper)

Insulation
EPR Insulations to BS7655

Sheath
HOFR Sheath to BS7655

Voltage Rating
100V (450V for non-welding applications if suitably protected from mechanical danger)

Temperature Rating
-40 to $+85^0C$

Minimum Bending Radius
6 x overall diameter

Duty Cycle and Current Carrying Capacity
The current carrying capacity of a welding cable depends on the length of the duty cycle. The duty cycle is the length of time during which a loaded current passes through the cable over an operation period of 5 minutes, expressed as a percentage of that period. For example, if the current is flowing for the full 5 minutes the duty cycle is 100% and if the current is flowing for 1 minute the duty cycle is 20%. As conductor temperature caries according to the time in use as well as current, ratings shown are given as a guide.

GLOBE HEAT TREATMENT SERVICES LTD

Units 3—5 & 7 Venture Works
Charleywood Road
Knowsley Industrial Estate North
Merseyside, L33 7SG
Tel: +44 (0)151 548 5281
enq@globeheat.com
www.globeheat.com

The permissible loading of the cable for duty cycles other than those shown in the table can be calculated using the following formula:.

$I=I_{100}$ 100F

Where:

I: **is the maximun permissible loading current for the required duty cycle**

$I_{100:}$ **is the maximun permissible loading current for a duty cycle of 100%**

F: **is the required duty cycle calculated as a percentage of the 5 minute operational period**

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%

Loading Current Values (amperes)

Nominal Cross Sectional Area mm^2	100%	85%	60%	30%
16	135	145	175	230

Unit of Sale: **Each**