

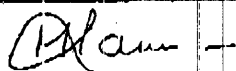
DESCRIPTION

# TECHNICAL DATA SHEET FOR BW & CW CABLE GLANDS, INCLUDING CABLE DETAILS.

QUALITY SYSTEM No:

# DAV1673

SIGNED:


ISSUE  
DATE:

21-09-1998

SHEET 2 of 5



# MASTER

## BRASS GLAND SELECTION CHART

THE GLAND SIZES AND RECOMMENDATIONS, INDICATED IN THE CHART BELOW, ARE BASED ON CABLES MANUFACTURED TO BS6346 (1997) AND THE APPROPRIATE NOMINAL DIAMETERS STATED.

| 600/1000V STRANDED COPPER CONDUCTORS PVC INSULATED<br>WITH STEEL WIRE ARMOUR AND PVC SHEATHED OVERALL |         |                 |     |     |     |     |     |     |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------------------|---------|-----------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| CABLE SIZE<br>CONDUCTOR                                                                               |         | NUMBER OF CORES |     |     |     |     |     |     |    |    |    |    |    |    |
| NOM.<br>AREA<br>mm <sup>2</sup>                                                                       | NEUTRAL | 1               | 2   | 3   | 3½  | 4   | 5   | 7   | 10 | 12 | 19 | 27 | 37 | 48 |
| 1.5                                                                                                   | --      | --              | 16  | 16  | --  | 20S | 20S | 20S | 20 | 20 | 25 | 25 | 32 | 32 |
| 2.5                                                                                                   | --      | --              | 20S | 20S | --  | 20S | 20S | 20  | 25 | 25 | 25 | 32 | 32 | 40 |
| 4                                                                                                     | --      | --              | 20S | 20  | --  | 20  | 20  | 25  | 25 | 32 | 32 | 40 |    |    |
| 6                                                                                                     | --      | --              | 20  | 20  | --  | 20  |     |     |    |    |    |    |    |    |
| 10                                                                                                    | --      | --              | 25  | 25  | --  | 25  |     |     |    |    |    |    |    |    |
| 16                                                                                                    | --      | --              | 25  | 25  | --  | 25  |     |     |    |    |    |    |    |    |
| 25                                                                                                    | 16      | --              | 32  | 32  | 32  | 32  |     |     |    |    |    |    |    |    |
|                                                                                                       |         |                 | 25  | 25  |     | 32  |     |     |    |    |    |    |    |    |
| 35                                                                                                    | 16      | --              | 32  | 32  | 32  | 40  |     |     |    |    |    |    |    |    |
|                                                                                                       |         |                 | 25  | 32  |     | 32  |     |     |    |    |    |    |    |    |
| 50                                                                                                    | 25      | 25              | 32  | 32  | 32  | 40  |     |     |    |    |    |    |    |    |
| 70                                                                                                    | 35      | 25              | 32  | 40  | 40  | 40  |     |     |    |    |    |    |    |    |
| 95                                                                                                    | 50      | 25              | 40  | 40  | 50S | 50S |     |     |    |    |    |    |    |    |
| 120                                                                                                   | 70      | 32              | 40  | 50S | 50  | 50  |     |     |    |    |    |    |    |    |
| 150                                                                                                   | 70      | 32              | 50S | 50  | 50  | 63S |     |     |    |    |    |    |    |    |
| 185                                                                                                   | 95      | 32              | 50  | 50  | 63S | 63  |     |     |    |    |    |    |    |    |
| 240                                                                                                   | 120     | 40              | 50  | 63S | 63  | 75S |     |     |    |    |    |    |    |    |
| 300                                                                                                   | 150     | 40              | 63S | 63  | 75S | 75  |     |     |    |    |    |    |    |    |
| 300                                                                                                   | 185     | --              | --  | --  | 75  | --  |     |     |    |    |    |    |    |    |
| 400                                                                                                   | 185     | 50S             | 63  | 75S | 90  | 90  |     |     |    |    |    |    |    |    |
| 500                                                                                                   | --      | 50              | --  | --  | --  | --  |     |     |    |    |    |    |    |    |
| 630                                                                                                   | --      | 50              | --  | --  | --  | --  |     |     |    |    |    |    |    |    |
| 800                                                                                                   | --      | 63S             | --  | --  | --  | --  |     |     |    |    |    |    |    |    |
| 1000                                                                                                  | --      | 63              | --  | --  | --  | --  |     |     |    |    |    |    |    |    |

THIS SELECTION CHART IS INTENDED PURELY AS A GUIDE AND IT IS ADVISED THAT THE ACTUAL CABLE SIZES ARE CHECKED AGAINST THE GLAND DIMENSIONS. THIS BECOMES PARTICULARLY IMPORTANT WHERE SEALS ARE REQUIRED.

CABLE PARTICULARS IN THE SHADED AREAS INCORPORATE THE NEW CIRCULAR CONDUCTORS SHOWN IN BS6346 (1969) AMENDMENT NUMBER 3717 (OCTOBER 69).

# DAVICO

Keeping electricity firmly in its place

Davico Industrial Limited, Charles Street, West Bromwich, West Midlands, B70 0AZ, U.K.  
Tel: (0121) 520-7101/040, Fax: (0121) 520-7775 (SALES)/(0121) 520-0035 (ENQUIRES)  
E-Mail sales: sales@davico.co.uk Enquiries: enq@davico.co.uk  
World Wide Web: <http://www.davico.co.uk>

REV  
1

DATE

SIG.

REV  
2

DATE

SIG.

REV  
3

DATE

SIG.

DESCRIPTION

# TECHNICAL DATA SHEET FOR BW & CW CABLE GLANDS, INCLUDING CABLE DETAILS.

QUALITY SYSTEM No:

# DAV1673

SIGNED:


ISSUE  
DATE:

21-09-1998

SHEET 3 of 5

## SELECTION OF CABLE GLANDS

IN ORDER TO ASSIST IN THE SELECTION OF A CABLE GLAND THE FOLLOWING DIRECTIVES, AS INDICATED IN BS6121 PART 1, NEED TO BE APPLIED.



- A) Select and identify the cable by British Standard number;
- B) Check the voltage rating, type and size of the cable;
- C) Check the actual size of the cable over the inner sheath;
- D) Check the actual size of the cable's overall diameter;
- E) Check the size and type of armour braiding if applicable;
- F) Check the environment conditions including enclosure to ensure that corrosion effects are covered;
- G) Check whether or not the installation is in a hazardous area;
- H) Check all accessories (i.e. Shrouds, Earth Tags, Locknuts, etc.).

| CABLE TYPE |                       | SINGLE WIRE ARMOUR (SWA) |            |
|------------|-----------------------|--------------------------|------------|
|            | CONDITIONS            | NO SEAL                  | OUTER SEAL |
| INDOORS    | CLEAR & DRY           | BW                       | CW         |
|            | EXTERNAL MOISTURE     | --                       | CW         |
|            | INTERNAL MOISTURE     | --                       | --         |
|            | DUST                  | --                       | CW         |
|            | OIL                   | --                       | CW         |
| OUTDOORS   | PROTECTED WITH SHROUD | --                       | CW         |
|            | EXPOSED               | --                       | CW         |
|            | INTERNAL MOISTURE     | --                       | --         |

# **DAVICO** Keeping electricity firmly in its place

Devico Industrial Limited, Charles Street, West Bromwich, West Midlands, B70 0AZ, U.K.  
Tel: (0121) 520-7101/3040, Fax: (0121) 520-7775 (SALES) / (0121) 520-0036 (ENQUIRES)  
E-Mail sales: sales@davico.co.uk Enquiries: enq@davico.co.uk  
World Wide Web: http://www.davico.co.uk

REV  
1

DATE

SIG.

REV  
2

DATE

SIG.

REV  
3

DATE

SIG.

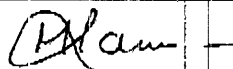
## DESCRIPTION

**TECHNICAL DATA SHEET FOR BW & CW  
CABLE GLANDS. INCLUDING CABLE DETAILS.**

QUALITY SYSTEM No:

**DAV1673**

SIGNED:



 ISSUE  
DATE:

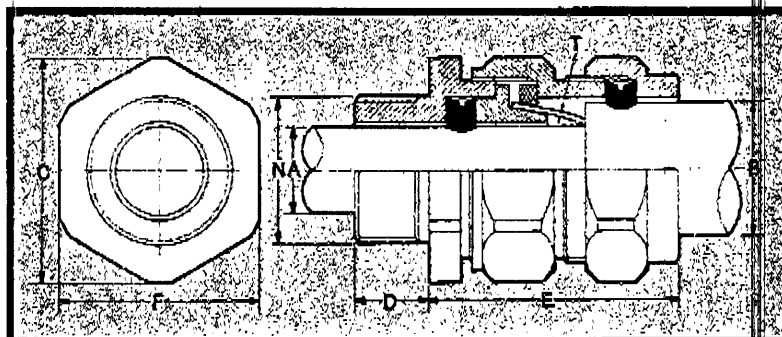
21-09-1998

SHEET 5 of 5

## CW TYPE GLANDS



DAVICO

**MASTER**


| GLAND<br>SIZE<br>REF. | ENTRY THREAD |               | CABLE ACCEPTANCE DETAILS |                          |                            | HEXAGONAL DETAILS |              | ASSEM-<br>-BLED<br>LENGTH<br>'E' |
|-----------------------|--------------|---------------|--------------------------|--------------------------|----------------------------|-------------------|--------------|----------------------------------|
|                       | DIA.<br>'N'  | LENGTH<br>'D' | DIA.<br>'A'<br>MIN. MAX. | DIA.<br>'B'<br>MIN. MAX. | ARMOUR<br>WIRE SIZE<br>'T' | A / F<br>'F'      | A / C<br>'C' |                                  |
| CW-16L                | 16           | 10            | 3.5 - 9.0                | 8.4 - 13.8               | 0.90                       | 22.0              | 24.4         | 38.0                             |
| CW-20S                | 20           | 10            | 8.0 - 11.8               | 12.9 - 15.8              | 0.90/1.25                  | 24.0              | 26.6         | 40.0                             |
| CW-20L                | 20           | 10            | 11.0 - 13.8              | 15.5 - 20.8              | 0.90/1.25                  | 30.0              | 33.3         | 41.0                             |
| CW-25L                | 25           | 10            | 13.0 - 19.8              | 20.3 - 27.5              | 1.25/1.60                  | 36.0              | 39.9         | 44.0                             |
| CW-32L                | 32           | 10            | 19.0 - 26.4              | 26.7 - 33.5              | 1.60/2.00                  | 46.0              | 51.0         | 48.0                             |
| CW-40L                | 40           | 15            | 25.0 - 32.4              | 33.0 - 40.9              | 1.60/2.00                  | 55.0              | 61.0         | 52.0                             |
| CW-50S                | 50           | 15            | 31.5 - 38.0              | 39.4 - 46.3              | 2.00/2.50                  | 60.0              | 66.5         | 55.0                             |
| CW-50L                | 50           | 15            | 36.5 - 44.0              | 45.7 - 52.6              | 2.00/2.50                  | 65.0              | 72.0         | 55.0                             |
| CW-63S                | 63           | 15            | 42.5 - 49.0              | 52.1 - 61.5              | 2.50                       | 75.0              | 83.2         | 60.0                             |
| CW-63L                | 63           | 15            | 48.5 - 55.5              | 58.4 - 65.3              | 2.50                       | 80.0              | 88.7         | 60.0                             |
| CW-75S                | 75           | 20            | 54.5 - 62.0              | 64.8 - 73.0              | 2.50                       | 90.0              | 100.0        | 65.0                             |
| CW-75L                | 75           | 20            | 60.5 - 67.0              | 71.0 - 78.0              | 2.50                       | 95.0              | 105.4        | 65.0                             |
| CW-90L                | 90           | 20            | 66.0 - 79.0              | 77.0 - 90.0              | 2.50/3.15                  | 110.0             | 122.0        | 70.0                             |

## APPLICATION

OUTDOOR OR INDOOR REQUIREMENT FOR ALL SWA APPLICATIONS  
PROVIDES FOR ARMOUR CLAMP AND SEAL ON OUTER SHEATH OF CABLE.

**DAVICO**

Keeping electricity firmly in its place

Davico Industrial Limited, Charles Street, West Bromwich, West Midlands, B70 0AZ, U.K.  
 Tel: (0121) 820-710 / 8040, Fax: (0121) 520-7775 (SALES) / (0121) 520-0038 (ENQUIRES)  
 E-Mail sales: sales@davico.co.uk Enquiries: enq@davico.co.uk  
 World Wide Web: http://www.davico.co.uk

 REV  
1

DATE

SIG.

 REV  
2

DATE

SIG.

 REV  
3

DATE

SIG.