

148-813

2 PRODUCT SHEET (continued)

- 148-812 to 815 -

FLEXIBLE MAINS CONNECTING LEADS

General Construction

A range of flexible mains leads including cables complying fully with the requirements of BS 6500: 1975.

Conductors

Range in sizes from $7 \times 0.25\text{mm}$ to $42 \times 0.15\text{mm}$ (0.34 sq. mm to 0.75 sq. mm) in plain copper wires.

Insulant

PVC conforming to Type 3 BS 6746, 1969 and Type T1.2 BS 6746 1975.



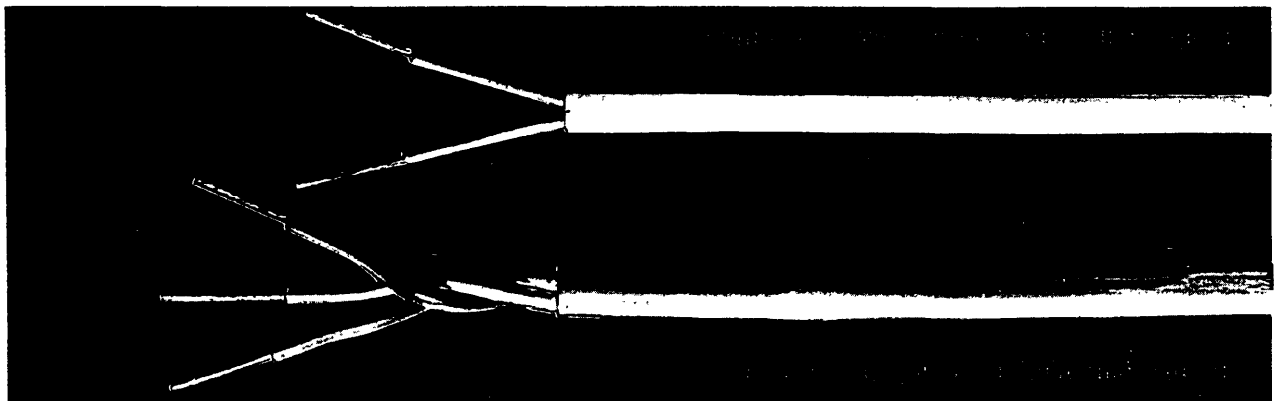
Conductors

$13 \times 0.2\text{mm}$ to $24 \times 0.2\text{mm}$ plain copper wires (0.41 sq. mm to 0.75 sq. mm).

Insulant

PVC insulating grade Type 3 BS 6746: 1969 or Type T12 BS 6746: 1975.

Specifications apply to both types of cable.



Conductors

$7 \times 0.2\text{mm}$ (0.22 sq. mm) to $30 \times 0.25\text{mm}$ (1.50 sq. mm) in plain copper wires.

Outer Sheath

PVC sheathing grade Type 3 BS 6746: 1969 or Type TM2 BS 6746: 1975.

Specifications apply to both types of cable.

TABLE 1
Figure 8
Cables

Catalogue Number	Nominal Conductor Area sq. mm	Conductor Size mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Voltage Rating	Specification	Harmonised Code Designation
6656	0.34	7×0.25	0.5	1.8×3.6	Light Duty	DAVU	These cables are limited to 60 volts maximum voltage use.
6654	0.41	13×0.2	0.5	1.90×3.75	" "	DAVU	
6659	0.41	13×0.2	0.5	1.90×3.75	" "	DAVU	
6738	0.50	28×0.15	0.8	2.8×5.4	300/300	BS6500:1975 Table 14	HO3VH-H
6739	0.75	42×0.15	0.8	2.9×5.7	300/300	BS6500:1975:Table 14	HO3VH-H

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TABLE 2
Parallel Twin
Overall
Sheathed
Cables

Catalogue Number	Nominal Conductor Area sq. mm	Conductor Size mm	Nominal Insulation thickness	Nominal Overall Diameter mm	Voltage Rating	Specification	Harmonised Code Designation
6651	0.41	13×0.2	0.6	3.0×4.8	Light Duty	DAVU	
● 6720	0.41	13×0.2	0.8	3.9×6.1	300/500	BS6500:1969:Table 11	
● 6637	0.50	16×0.2	0.8	4.0×6.2	300/500	BS6500:1969:Table 11	
6751	0.50	16×0.2	0.6	3.5×5.4	300/300	BS6500:1975:Table 15	HO3VVH2-F
6737	0.75	24×0.2	0.6	3.6×5.9	300/300	BS6500:1975:Table 15	HO3VVH2-F
● 6742	0.75	24×0.2	0.8	4.2×6.65	300/500	BS6500:1975:Table 16	HO5VVH2-F

TABLE 3
2 Core
Circular
Cables

6707	0.41	13×0.2	0.35	5.0	Light Duty	DAVU	
6661	0.50	16×0.2	0.8	6.2	300/500	BS6500:1975:Table 16	
6733	0.50	16×0.2	0.6	5.4	300/300	BS6500:1975:Table 15	HO3VV-F
● 6736	0.75	24×0.2	0.6	5.9	300/300	BS6500:1975:Table 15	HO3VV-F
6743	0.75	24×0.2	0.8	6.65	300/500	BS6500:1975:Table 16	HO5VV-F
● 6708	1.00	32×0.2	0.8	6.95	300/500	BS6500:1975:Table 16	HO5VV-F
● 6731	1.50	30×0.25	0.8	8.0	300/500	BS6500:1975:Table 16	HO5VV-F

TABLE 4
3 Core
Circular Cables

6650	0.22	7×0.2	0.5	4.5	Light Duty	DAVU	
6648	0.41	13×0.2	0.5	5.0	" "	DAVU	
6718	0.41	13×0.2	0.5	5.0	" "	DAVU	
6734	0.50	16×0.2	0.6	5.8	300/300	BS6500:1975:Table 15	HO3VV-F
● 6735	0.75	24×0.2	0.6	6.1	300/300	BS6500:1975:Table 15	HO3VV-F
6745	0.75	24×0.2	0.8	7.1	300/500	BS6500:1975:Table 16	HO5VV-F
6746	1.0	32×0.2	0.8	7.45	300/500	BS6500:1975:Table 16	HO5VV-F
● 6678	1.25	40×0.2	0.9	8.5	300/500	BS6500:1975:Table 16	
● 6732	1.50	30×0.25	0.9	8.70	300/500	BS6500:1975:Table 16	HO5VV-F

● Acceptance of orders for these cables will depend on order quantity and availability of manufacturing capacity.

Core colours (sheathed cables) are Blue, Brown (2 core cables) and Green/Yellow.

Standard Sheath Colours
Black, Brown, Grey, White.

Normal Reelings
50 and 100 metres.

All copper wires used conform to the requirements of BS 6360: 1969.

Cables shown in Tables 2, 3 and 4 can be sheathed using a low marring grade PVC.

All twin Fig. 8 cables above 0.4 sq. mm have a rib down one side indicating polarity, whilst some have an additional coloured polarity stripe.

At the time of printing BS6500 1975 is about to be superseded by the 1984 edition. Our existing Licence is expected to embrace cables to the later Issue.

2 PRODUCT SHEET (continued)

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FLEXIBLE MAINS CONNECTING LEADS

TABLE 5
Electrical
Characteristics

Conductor Area sq. mm	Number & Diameter of Wires mm	Nominal Conductor Diameter mm	Current Rating DC, Single or 3-Phase AC Amps	Max. Resistance 1000 m at 20°C Plain Annealed Copper Ohms	Max. Permissible Weight Supported By Twin Cables kg
0.15	19×0.1	0.5	0.9	120.0	0.5
0.22	7×0.2	0.6	1.5	89.0	0.75
0.34	7×0.25	0.75	2.0	54.0	1.0
0.41	13×0.2	0.86	2.25	48.0	1.5
0.5	16×0.2	0.93	3.0	39.0	2.0
0.5	28×0.15	0.93	3.0	39.0	2.0
0.75	24×0.2	1.14	6.0	26.0	3.0
0.75	42×0.15	1.14	6.0	26.0	3.0
1.0	32×0.2	1.32	10.0	20.0	5.0
1.25	40×0.2	1.47	12.0	16.0	5.0
1.50	30×0.25	1.60	15.0	12.7	5.0

■ Ambient Temperature 30°C To avoid overheating of flexible cords, the current ratings shown above should not be exceeded.

Where flexibles are used in ambient temperatures greater than those shown, the increased temperature should be compensated by a reduction in the current rating in accordance with the derating factors shown.

TABLE 6
Derating
Factors

Ambient Temperature °C	30	35	40	45	50	55
Derating Factor	1.0	0.96	0.92	0.87	0.71	0.50

N.B. Flexibles should never be subjected to the full rated current whilst still wound on to the reel or in coil form.

Technical and mechanical data quoted are nominal and are intended for general guidance only.

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