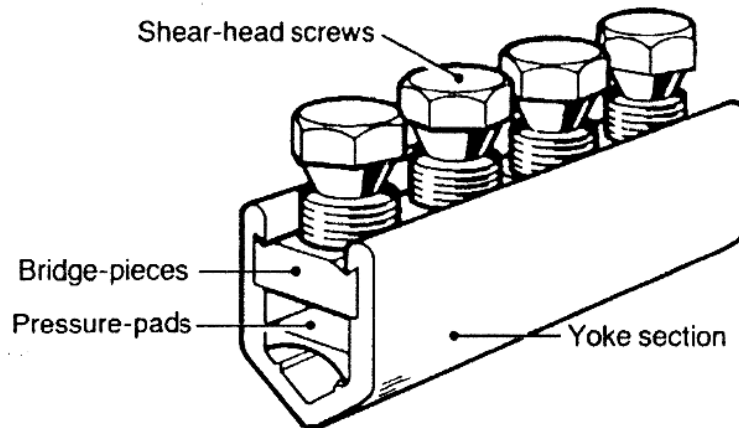


Straight-through mains connectors

## MECHANICAL CONNECTORS



### UM1, UM2 & UM3 Connectors



### Principle Application

Stranded sector shaped conductors in the following ranges: -

### Range

Connector reference	Core c.s.a. (mm <sup>2</sup> )		Approx Unit Wt. (gms)
	min.	max.	
UM1	35	95	155
UM2	95	150	210
UM3	185	300	375

The Hepworth UM range of straight-through mains connectors has been designed to accommodate three or four core sector-shaped stranded conductors in the ranges specified above. The connector employs the proven shear-head screw principle to ensure that a consistent and reliable connection is achieved. Fitting is completed by the use of orthodox hand tools only, and no specialised equipment or techniques are required.

Each connector is supplied in a sealed pack together with fitting instructions, details of which are included in the technical data overleaf.

### Secondary Applications

**(a) Solid Aluminium Conductors.** These connectors can accommodate sector shaped solid aluminium conductors within the ranges specified below. For these connections the pressure-pad is normally removed.

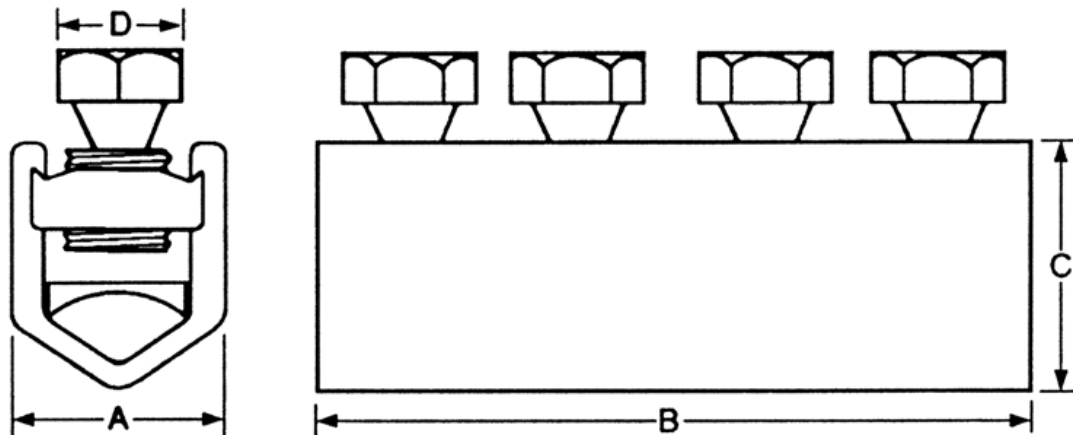
**(b) Circular Conductors.** These connectors are also suitable for stranded circular conductors to BS 6360 (copper) & BS 6791 (aluminium) in the following ranges: -

Ref. Code	Core c.s.a. (mm <sup>2</sup> )			
	(a) Solid Aluminium		(b) Circular Conductors	
	min.	max.	min.	max.
UM1	70	95	35	95
UM2	95	150*	95	120
UM3	185	300	120	300

\*NOTE: 4-core 185mm<sup>2</sup> can also be accommodated

**UM1, UM2 & UM3 Connectors**

**Physical Dimensions**



Ref. Code	Dimensions (mm)			
	A	B	C	D
UM1	26	90	32	17
UM2	31	100	36	17
UM3	42	130	44.5	17

**Material**

Aluminium Alloy

**Fitting Instructions**

Cut the cores to length, strip insulation from each core equal to the length of the pressure pad plus 3 mm and thoroughly abrade the exposed conductors. Align the cores and loosely assemble the connector around the conductors by fitting the bridge pieces and inserting the pressure pads, whilst ensuring that the connector remains centrally located. Once the assembly is correctly aligned, tighten the screws consecutively, one turn at a time, until the heads are sheared from all four screws.

If copper conductors are to be jointed they should be wrapped in brass gauze in order to improve the electrical stability of the interface connection.