Mechanical In-Line Splice with Moisture/Contaminant Block for Medium/High Voltage Applications

MECHANICAL CONNECTORS

'USMF' Aluminium In-Line Splices



USMF1 USMF1/1 (without rings)

USMF2

USMF3 USMF7 USMF8

Principle Application:

Straight jointing of circular stranded aluminium or copper conductors for all cable voltages up to and including 46kV.

Range:

Connector	Stranded Core Size			
Reference	Min	Max Min	Max	
USMF1*	# 2	250 kcmil	# 2	250 kcmil
USMF1/1	(34mm²)	(127mm²)	(34mm²)	(127mm²)
USMF2	2/0	500 kcmil	2/0	500 kcmil
	(67mm²)	(253mm²)	(67mm²)	(253mm²)
USMF3	500 kcmil	1000 kcmil	500 kcmil	1000 kcmil
	(253mm²)	(507mm²)	(253mm²)	(507mm²)
USMF7	350 kcmil	750 kcmil	350 kcmil	750 kcmil
	(177mm²)	(380mm²)	(177mm²)	(380mm²)
USMF8	800 kcmil	1250 kcmil	800 kcmil	1250 kcmil
	(400mm²)	(630mm²)	(400mm²)	(630mm²)

The 'USMF' range of mechanical connectors incorporate an integral moisture/contaminant block and utilise the patented universal range taking shear bolts. (USA Patent No's 6209424 & 6321624)

The appropriate socket is to be used at all times, typical examples shown below.



'JTS/9' 1/2 "sq Driver





'JTS/37' 5/8" AF Drive (Disposable)

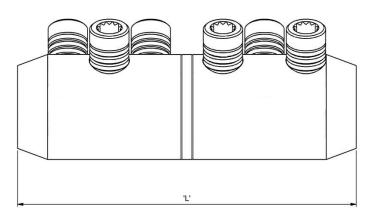


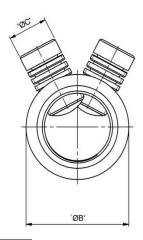


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Physical Dimensions:





Connector	Dimensions			
Reference	'L'	'ØB'	'ØC'	
USMF1*	3.98"	1.10" (28mm)	M16	
USMF1/1	(101mm)			
USMF2	4.37'' (111mm)	1.34" (34mm)	M16	
USMF3	6.10'' (155mm)	1.85'' (47mm)	M18	
USMF7	5.70'' (145mm)	1.47" (37.5mm)	M18	
USMF8	6.10'' (155mm)	2.00" (50.8mm)	M18	

Material: Aluminium Alloy (Electro-Tinned)

Test Specification: ANSI C119.4 Class 2 Partial Tension

Test Report No: TTR/271 & TTR/272

Fitting instructions:

- 1. Strip insulation from each core equal to the depth of the bore.
- 2. Wire brush the exposed conductor cores and wipe clean (optional).
- 3. Align and position the conductor cores in each of the bores ensuring that the core is fully inserted to the centre wall.
- 4. Fit the universal shear screws within the connector and torque tighten one turn at a time, using the correct socket, until the bolts have sheared.
- 5. De-burr and clean the connector as appropriate ensuring the profile of the screws are level with the connector body and leaving no sharp edges.

*IMPORTANT: When using the USMF1 the centralising ring must be used on cable sizes #2 to 2/0 AWG, inclusive.



