



MV UNDERGROUND





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SHEAR BOLT STRAIGHT JOINT CONNECTORS







MF17 SERIES MV SHEAR BOLT STRAIGHT JOINT CONNECTOR WITHOUT CENTRE BARRIER

APPLICATION

Straight-through jointing of polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV jointing systems.

CONDUCTOR TYPE

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + The MF17 series bolted connectors utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation.
- + The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- Supplied complete with cable core stripping guides.
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable joints, it is essential that the jointing system supplier's instructions for stress relieving and reinsulation techniques be strictly adhered to

Packed individually in sealed plastic bags

Product Number	Conductor Size Range (mm²)	Overall Length (mm)	Connector Diameter (mm)	Bott Size	Paci Size
	Application range	for STRANDE	ED SECTOR shaped	d conductors	
ME17/1	10° to 95	90	28.5	M16	10
MF17/2	16 to 95	100	32.0	M16	1
MF17/3	70 to 300	110	35.0	M18	- 1
MF17/4	185 to 300	110	41.0	M18	1
	Application rai	nge for SOLID	SECTOR shaped or	onductors	
MF17/1	10 to 70	90	28.5	M16	£
MF17/2	16 to 150	100	32.0	M16	1
MF17/3	70 to 240	110	35.0	M18	- 1
ME17/4	185 to 300	110	41.0	M18	1
	Application ra	nge for STRAN	IDED CIRCULAR o	onductors	
MF17/1	10* to 95	90	28.5	M16	£
MF17/2	16 to 185	100	32.0	M16	1
MF17/3	70 to 300	110	35.0	M18	1
MF17/4	185 to 300	110	41.0	M18	15
	Application	range for SOL	ID CIRCULAR cond	ductors	
MF17/1	10 to 70	90	28.5	M16	1
ME17/2	16 to 150	100	32.0	M16	1
MF17/3	70 to 240	110	35.0	M18	1
MF17/4	185 to 300	110	41.0	M18	10

Required tool for all products: JTS/16 Splined socet

area



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH



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UNDERGROUND CONNECTORS

SHEAR BOLT STRAIGHT JOINT CONNECTORS









MF15 SERIES MV SHEAR BOLT STRAIGHT JOINT CONNECTOR WITH CENTRE BARRIER

APPLICATION

Straight-through jointing of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV jointing systems.

CONDUCTOR TYPES

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + Integral moisture or contaminate barrier
- + The MF15 series bolted connectors utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation.
- + The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- + Supplied complete with cable core stripping guides.
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable
joints, it is essential that the jointing system supplier's
instructions for stress relieving and reinsulation
techniques be strictly adhered to.

Packed individually in sealed plastic bags.

Product Number	Conductor Size Range (mm²)	Overall Length (mm)	Connector Diameter (mm)	Bolt Size	Paci Size
,	Application range for S	TRANDED S	SECTOR shaped	conductors	
MF15/1	16 to 120	95	28.5	M16	1
MF15/2	16 to 185	105	32.0	M16	1
MF15/3	70 to 300	115	37.5	M18	9
	Application range fo	r SOLID SE	CTOR shaped co	nductors	10
MF15/1	16 to 95	95	28.5	M16	- 1
MF15/2	16 to 150	105	32.0	M16	1
MF15/3	70 to 240	115	37.5	M18	1
	Application range to	r STRANDE	D CIRCULAR co	nductors	
MF15/1	16 to 120	95	28.5	M16	1
MF15/2	16 to 185	105	32.0	M16	- 81
MF15/3	70 to 300	115	37.5	M18	1
MF15/EDF	95 to 240	105	32.0	M16	1
	Application range	for SOLID (CIRCULAR condu	uctors	
MF15/1	16 to 95	95	28.5	M16	
MF15/2	16 to 150	105	32.0	M16	- 11
MF15/3	70 to 240	115	37.5	M18	1

Required tool for all products: JTS/16 Splined socet



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH

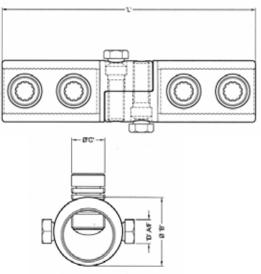


SHEAR BOLT STRAIGHT JOINT LAP CONNECTORS









MF18 SERIES MV SHEAR BOLT STRAIGHT JOINT SPLIT LAP CONNECTOR

APPLICATION

Straight-through jointing of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV jointing systems.

CONDUCTOR TYPE

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + Split Lap type connector to eliminate the need to bend cable cores during jointing
- + Integral moisture or contaminate barrier
- + The MF18 series bolted connectors utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation.
- + The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- + Supplied complete with cable core stripping guides.
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable joints, it is essential that the jointing system supplier's instructions for stress relieving and reinsulation techniques be strictly adhered to.

Packed individually in sealed plastic bags.

TEST SPECIFICATIONS

ER C79, AS/NZS 4325.1 (IEC 61238-1)

Product Number	Conductor Size Range (mm²)	Overall Length (L) (mm)	Diameter (ΦB) (mm)	Bolt Size (ФС)	Pack Size
Ар	plication range for STI	RANDED SECT	OR shaped cor	nductors	
MF18/1	10° to 95	129.5	28.5	M16	31
MF18/2	16 to 185	130.5	32.0	M18	1
MF18/3	70 to 300	155.5	37.5	M18	1
3	Application range for \$	SOLID SECTOR	shaped condu	ictors	
MF18/1	10 to 70	129.5	28.5	M16	1
MF18/2	16 to 150	130.5	32.0	M18	-11
MF18/3	70 to 240	155.5	37.5	M18	1
8	Application range for \$	STRANDED CIP	CULAR condu	uctors	
MF18/1	10° to 95	129.5	28.5	M16	ï
MF18/2	16 to 185	130.5	32.0	M18	1
MF18/3	70 to 300	155.5	37.5	M18	31
	Application range for	SOLID CIRCU	JLAR conducto	ors	
MF18/1	10 to 185	129.5	28.5	M16	1
MF18/2	16 to 300	130.5	32.0	M18	1
MF18/3	70 to 400	155.5	37.5	M18	3 .

Required tool for all products: JTS/16 Splined socet



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH



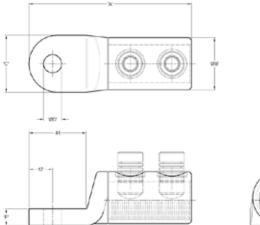
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UNDERGROUND CONNECTORS

MECHANICAL TERMINAL LUGS









HVTM3 SERIES ALUMINIUM OFFSET PALM, SINGLE HOLE TERMINAL LUGS

APPLICATION

Termination of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV termination systems.

CONDUCTOR TYPES

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + Integral moisture or contaminate barrier
- + The HVTM series of bolted terminal lugs utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation
- + The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- + Supplied complete with cable core stripping
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable terminations, it is essential that the termination system supplier's instructions for stress relieving and re-insulation techniques be strictly adhered to.

Packed individually in sealed plastic bags.

Product Number ¹	Conductor Size Range (mm²)	Overall Length A (mm)	Diameter OB (mm)	Palm Width C (mm)
Applic	ation range for STR	ANDED SECTOR S	naped conductors	
HVTM 3/1-x	16 to 120	104	28.5	41
HVTM 3/2-x	16 to 185	108	32.0	41
HVTM 3/3-x	70 to 300	117	37.5	41
Арр	olication range for SC	OLID SECTOR shap	ed conductors): :
HVTM:3/1-x	16 to 95	104	28,5	41
HVTM 3/2-x	16 to 150	108	32.0	41
HVTM 3/3-x	70 to 240	117	37.5	41
App	olication range for ST	RANDED CIRCUL	AR conductors	
HVTM 3/1-x	-x 16 to 120		28.5	41
HVTM 3/2-x	16 to 185	108	32.0	41
HVTM 3/3-x	70 to 300	117	37.5	41
,	Application range for	SOLID CIRCULAR	conductors	
HVTM 3/1-x	16 to 185	104 28.5		41
HVTM 3/2-x	16 to 300	108	32.0 4	
HVTM 3/3-x	70 to 400	117	37.5	41

- 1. Palm hole size must be nominated x=12 for M12 hole, x=16 for M16 hole.
- 2. Palm thickness is 10mm for all products
- 3. Palm width is equal to connector diameter OB
- All terminal lugs are manufactured from aluminium alloy. Brass alloy connectors are also available and are specified with a 'B' suffix to the product number.
- Extended palm length, two hole terminal lugs are also available.

Required tool for all products: JTS/16 Splined socet



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH

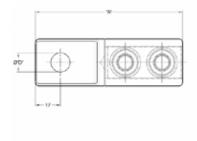


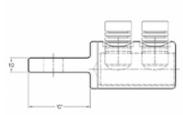
MECHANICAL TERMINAL LUGS













HVTM1 SERIES ALUMINIUM CENTRE PALM, SINGLE HOLE TERMINAL LUGS

APPLICATION

Termination of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV termination systems.

CONDUCTOR TYPE

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + Integral moisture or contaminate barrier
- + The HVTM series of bolted terminal lugs utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation.
- The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- + Supplied complete with cable core stripping guides.
- Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable terminations, it is essential that the termination system supplier's instructions for stress relieving and re-insulation techniques be strictly adhered to.

Packed individually in sealed plastic bags.

TEST SPECIFICATIONS

ER C79, AS/NZS 4325.1 (IEC 61238-1)

Product Number ¹	Conductor Size Range (mm²)	Overall Length A (mm)	Diameter 08 (mm)	Palm Width C (mm)
Арры	cation range for STRAI	NDED SECTOR sha	ped conductors	
HVTM 1/1-x	16 to 120	98	28.5	42
HVTM 1/2-x	16 to 185	100	32.0	42
HVTM 1/3-x	70 to 300	107	37.5	42
Ap	plication range for SOI	LID SECTOR shape	d conductors	
HVTM 1/1-x	16 to 95	98	28.5	42
HVTM 1/2-x	16 to 150	100	32.0	42
HVTM 1/3-x	70 to 240	107	37.5	42
Ap	plication range for STF	RANDED CIRCULA	R conductors	
HVTM 1/1-x	16 to 120	98	28.5	42
HVTM 1/2-x	16 to 185	100	32.0	42
HVTM 1/3-x	70 to 300	107	37.5	42
1	Application range for \$	SOLID CIRCULAR of	onductors	
HVTM 1/1-X	16 to 185	98	28.5	42
HVTM 1/2-x	16 to 300	100	32.0	42
HVTM 1/3-x	70 to 400	107	37.5	42

- 1. Palm hole size must be nominated x=12 for M12 hole, x=16 for M16 hole.
- 2. Palm thickness is 10mm for all products
- 3. Palm width is equal to connector diameter ØB
- All terminal lugs are manufactured from aluminium alloy. Brass alloy connectors are also available and are specified with a 'B' suffix to the product number.
- 5. Extended palm length, two hole terminal lugs are also available.

Required tool for all products: JTS/16 Splined socet



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH

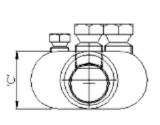


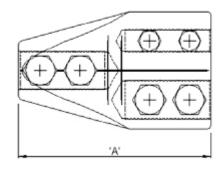


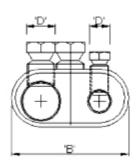
SHEAR BOLT BREECHES JOINT CONNECTORS











MB 18 SERIES MV SHEAR BOLT BREECHES JOINT CONNECTORR

APPLICATION

Breeches jointing of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV jointing systems.

CONDUCTOR TYPES

This versatile connector accommodates a large range of circular conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid

FEATURES

- + Proven technology torque control (shearhead) contact bolts
- + Integral moisture or contaminate barrier
- + Supplied complete with cable core stripping guides.
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable joints, it is essential that the jointing system supplier's instructions for stress relieving and reinsulation techniques be strictly adhered to.

Packed individually in sealed plastic bags.

Product	A STATE OF THE PARTY OF THE PAR	onductor Size Dimensions te (mm²) (mm)		THE TOTAL CONTRACTOR		
Number	Main (Min to Max)	Branch (Min to Max)	Á	В	С	
MB18/1	35 to 95	35 to 95	116	61	30.5	
MB18/2	95 to 150	35 to 95	116	61	30.5	
MB18/3	95 to 150	95 to 150	116	61	30.5	
MB18/EDF	95 to 240	95 to 240	116	61	30.2	
MB18/4	185 to 240	35 to 95	125	76	37.5	
MB18/5	185 to 240	185 to 240	125	76	37.5	
MB18/6	185 to 240	95 to 150	125	76	37.5	
MB18/7		95 to 150	125	76	37.5	
MB18/8		35 to 95	116	61	30.5	

Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH

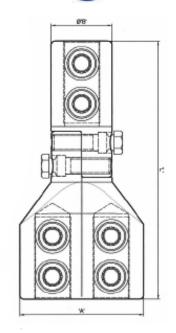


SHEAR BOLT BREECHES JOINT CONNECTORS









MB 20 SERIES MV SHEAR BOLT BREECHES JOINT SPLIT LAP CONNECTOR

APPLICATION

Breeches jointing of oil impregnated paper and polymeric insulated 11kV and 22kV cables. Suitable for either heat shrink or cold shrink type MV jointing systems.

CONDUCTOR TYPE

This versatile connector accommodates a vast array of conductor types, sizes and constructions in any combination;

- + aluminium or copper
- + stranded or solid
- + circular or sector shaped

FEATURES

- + Integral moisture or contaminate barrier
- + Split Lap type connector to eliminate the need to bend cable cores during jointing
- + The MB20 series bolted connectors utilise the patented "universal" range taking shear-head bolts. The bolts shear off at varying heights depending on the conductor size leaving a smooth and regular profile to the connector with no protuberances.
- + The internally splined contact bolt and special bolt driver (JTS/16) ensures the correct shear torque and position is achieved every time, eliminating the chances of premature operation.
- + The unique multi-position shear bolt is designed to apply increasing contact force with increasing conductor size.
- + Supplied complete with cable core stripping guides.
- + Supplied with brass gauze for the jointing of copper conductor.

When using these connectors in MV cable joints, it is essential that the jointing system supplier's instructions for stress relieving and reinsulation techniques be strictly adhered to.

Packed individually in sealed plastic bags

Product Number	Main Conductor Size Range (mm²) (Min to Max)	Branch Conductor Size Range (mm²) (Min to Max)	Diameter Ø8 (mm)	Width A (mm)	Length L (mm)
	Application range for	STRANDED SECT	OR shaped o	onductors	
MB20/1	10 to 95	10 to 95	28.0	55.0	145.5
MB20/2	16 to 185	16 to 185	32.0	62.0	148.5
MB20/3	70 to 300	70 to 300	37.5	76.0	166.5
MB20/5	16 to 185	16 to 185	37.5	76.0	160.0
	Application range	for SOLID SECTOR	shaped con	ductors	
MB20/1	10 to 70	10 to 70	28.0	55.0	145.5
MB20/2	16 to 150	16 to 150	32.0	62.0	148.5
M820/3	70 to 240	70 to 240	37.5	76.0	166.5
MB20/5	16 to 150	16 to 150	37.5	76.0	160.0
	Application range	for STRANDED CIT	RCULAR con	ductors	3
MB20/1	10 to 95	10 to 95	28.0	55.0	145.5
MB28/2	16 to 185	16 to 185	32.0	62.0	148.5
M820/3	70 to 300	70 to 300	37.5	76.0	166.5
MB20/5	16 to 150	16 to 150	37.5	76.0	160.0
	Application ran	ge for SOLID CIRC	ULAR condu	ctors	8
MB20/1	10 to 185	10 to 185	28.0	55.0	145.5
MB20/2	16 to 300	16 to 300	32.0	62.0	148.5
WB50/3	70 to 400	70 to 400	37.5	76.0	166.5
MB20/5	16 to 300	16 to 300	37.5	76.0	160.0

Required tool for all products: JTS/16 Splined socet



Recommended tool for all products: RPS13/17-6H or RPS13/17-6SH











936-MK3

CONSAC SHEATH CUTTING TOOL

Designed to cut the aluminium sheath on consac cable to facilitate jointing and terminating.

- + The tool provides a safe and accurate scoring of the sheath without the risk of cutting the insulation papers
- + Exact cutting depths are achieved when using the different size cutting wheels
- + 'T' handle is available to assist the operation of the tool
- + Consac Sheath Punch is available in 3 sizes 7mm, 10mm or 12mm
- + Complete sheath cutting kit in plastic case available on request

PUNCHES & CONNECTOR HOLDING TOOL

+ Punches to suit M6, M8 & M12 bolts







OTHER ACCESSORIES AVAILABLE

