



ST*i*C

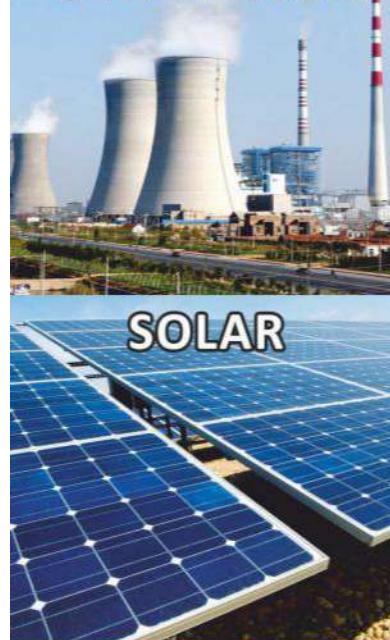
SHRIPAT TECH-INNOVATION CORPORATION

Energy Belongs to Engineers

Innovative, Reliable, Quality Solutions

From 15+ years of Industrial knowledge and experience

GENERATION



INDUSTRY



OIL & GAS



SHIP BUILDING



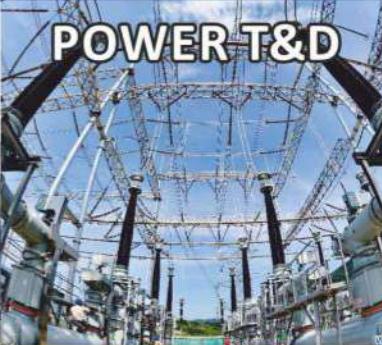
SOLAR



RAILWAYS



POWER T&D



WIND



**EFFICIENT
SMART
SOLUTIONS
FOR**

**CLAMP CONNECT
PROTECT MONITOR**

Unit No 14, Nidhi Paradise Industrial Estate, Tungareshwar phata,
Sativali, Vasai (East), Palghar – 401208, Maharashtra, India

Landmark : Behind Hotel Rudra Shelter International, on NH-48

Contact No: +919372341814

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www.shripat-india.com

ABOUT US

We are an ISO 9001-2015 certified Innovative Company engaged into Design, Develop, Manufacture & supply various types of mechanical, electro-mechanical, electrical, CNC machined components & customized products as solutions for various industries like Solar, Oil & Gas, Utilities etc....

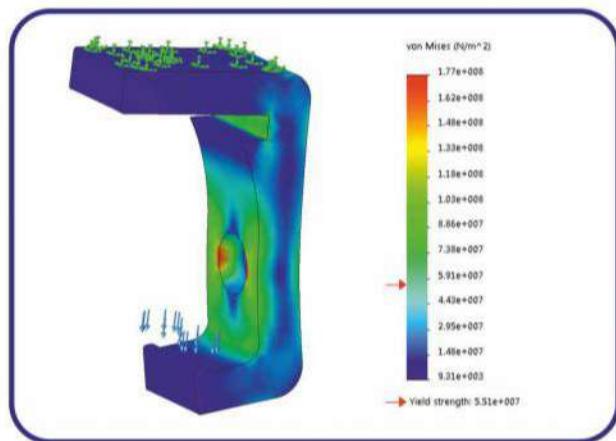
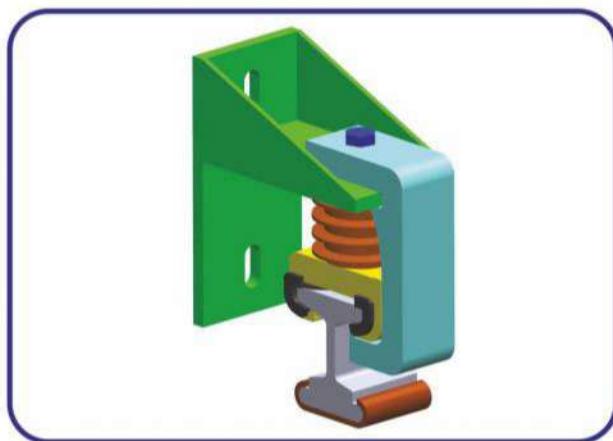
We serve products in the areas of **CLAMP, CONNECT, PROTECT, MEASURE, COMMUNICATE & MONITOR** functions to deliver efficient, better and cost effective solutions as per Industry standards and customer requirements.

Products & Solutions mainly include:

- Forged, Castings, Extrusions with CNC Machining & Pressed Parts
- Plastic, Metal parts and sub-assemblies as per customer requirements
- SS Bands, Wing Seals, Expansion Springs and Accessories for Hot & Cold insulations
- Clamping Solutions for Cables, Conductors, Pipes & others.
- LV & MV AB Cable accessories, Connector & Fittings for various applications
- Cable Glands, Earthing & Lightning Accessories, Other Brass components
- Screwless and Boltless Connection Systems / Connectors
- Distribution Cabinets/Cubicles/Enclosures, Street Lighting Solutions
- Electrical Assemblies / sub-assemblies as per customer needs
- Integrated Electrical & Electronics Solutions with Sensors as per applications
- MV Covered Conductors Accessories & Fittings, Poleline Hardwares

Our Strength is readily available manufacturing facilities and test set-up for delivering quality products at optimized cost with faster turnaround time.

Product Design, Development & Analysis : In-house CAD, CAM & CAE facilities



IN-HOUSE PRODUCT TESTING CAPABILITIES



Tensile/Compression Tester 30KN



Current Cycle and
Temperature Rise test set-up



HV Tester 5KV AC



HV Tester 15KV AC/DC



Thermovision Camera



Conductivity Tester



Contact Resistance Meter



Torque Testers

Industry Challenges : Low quality crimped connectors

High Resistances leads to Temperature Rise & Reliability Issues



Undesirable
Overheated Hot-Spots
leads to system failures
....temperature >200°C

Unacceptable
Technical Losses
due to human errors



EASYCON - TORQUE CONTROLLED SHEAR BOLT LUGS & FERRULES

Easy to Install and Minimal Losses



- **Electrical Termination / Joint / Tapping Application**

Proven Design and Manufactured from High Conductivity Al Alloy
Factory applied Oxide Inhibiting Compound

- **Reliability and Consistency**

Manufactured on Automatic CNC Machines
Special Customized Surface Treatment and Finishing

- **Advantages over existing connectors**

Range Taking Connectors, Accepts Cu/Al* cables, NO Crimping,
hence NO Crimping tool & dies needed

- **Simple and Fool-proof Installation by Ratchet Spanner**

Torque Controlled Shear Bolt for eliminating human error

- **Can be provided with Cold applied / Heat Shrink insulations**
- **Can be provided with hex groove allen Screws in place of Shear Bolt**

NOTE: *Customization is possible as per applications / specifications



Medium Duty
for Al Cables



Heavy Duty
for Cu & Al Cables

TORQUE CONTROLLED SHEARING BOLTED CONNECTOR

Cable Range in mm ²	16-70	95-150	185-300	400-630	1000
Ferrule / Splice (TCF)	TCF-001	TCF-002	TCF-003	TCF-004	TCF-005
Lug / Terminal (TCL)	TCL-001	TCL-002	TCL-003	TCL-004	TCL-005

Note: Other cable ranges can be provided based on request

COMPARISON : CONNECTOR TECHNOLOGIES

PARAMETERS	CRIMPED or COMPRESSION	SOLDERED or WELDED	"EASYCON" SHEAR BOLTED
TOOL + DIES + SKILL	YES	YES	NO
REMovable FEATURE	NO	NO	YES
CHEMICALS & EXPLOSIVES	NO	YES	NO
CONDUCTOR PREPARATION	YES	YES	PARTIALLY
EASE OF INSTALLATION	+	+	+++
CONTROLLED FORCE/TORQUE	NO	NO	YES
MECHANICAL STRENGTH	++	+	++
ELECTRICAL STABILITY	+	+	+++
RANGETAKING	NO	NO	YES
CU & AL ACCEPTABILITY	NO	NO	YES
REPEATABILITY & RELIABILITY	++	++	+++
ENERGY EFFICIENCY	+	+	++

Simple Installation

Stage 1

Connector placed over conductors



Lug

Stage 2

Final Installation by shearing of bolts



Ferrule





Transformers are essential component of power distribution system which have to work relentlessly with efficiency and reliability. Handling **different conductor materials and their connections** in electrical system are critical and one of the ignored subject as of now. Everywhere **crimping, bolting and binding** is used for connections. Currently Aluminium, Aluminium Alloys, Copper and Copper Alloys have been used for various applications.

Hence we at SHRIPAT TECH-INNOVATION designed and developed new engineered TUSKER-Terminals range which gives safe, firm, energy efficient & reliable connections for this specific industry need.

Industry Challenges :

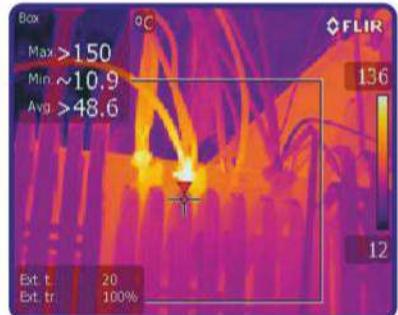
Revenue Losses, Demand Management, Overheating, Multiple Cable Connection handling, Phase balancing, Oil Leakages from Bushings, Issues with Porcelain Bushings like transit damages



Undesirable
Overheated Connection Hot-Spots
leads to Transformer shutdowns & finally failures



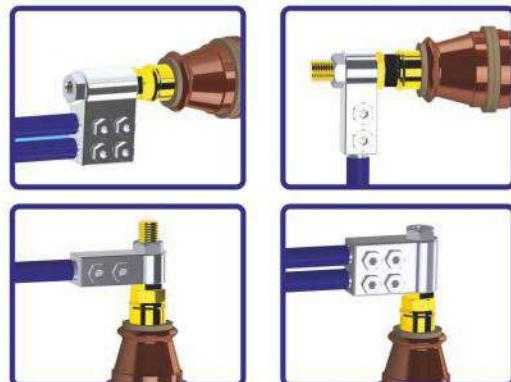
Unreliable
With Safety and O&M Issues
leads to AT&C Losses, High OPEX



Existing Connection Practies



New Solution



For Distribution and Power Transformers

• Equipment Connector Application

Proven Design and Manufactured from High Conductivity Al Alloy Factory applied Oxide Inhibiting Compound

• Reliability and Consistency

Manufactured on Automatic CNC Machines
Special Customized Surface Treatment and Finishing

• Simple and Fool-proof Installation by Ratchet Spanner

Torque Controlled Shear Bolt for eliminating human error

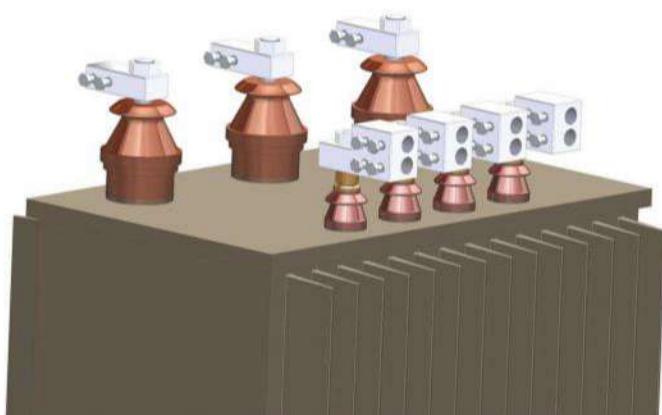
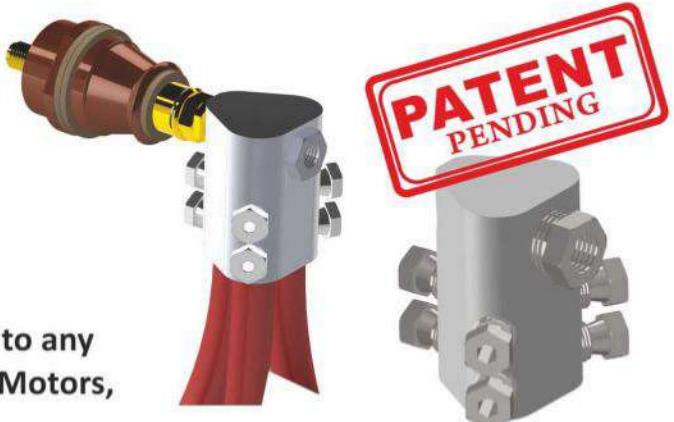
• Can be provided with Cold applied / Heat Shrink insulations

• Light Weight and Easy to install compatible with Copper, Copper Alloys, Aluminium and Aluminium Alloys

This patented energy efficient design can be extended to any equipment connector like ACB, Generators, Industrial Motors, Switchgears etc....based on application

• Advantages over existing connectors

No Crimping hence NO tools & dies needed,
Range Taking Connectors, Accepts CU and AL



Product Code	Stud Size Ø mm	Cable Range mm ²	Outgoing Nos	Current Rating A*
STT-1001	M12	16-50	1	150
STT-1002		50-95	2	250
STT-1003	M20	95-150	1	250
STT-1004		240-400	2	400
STT-1005	M30	240-400	1	630
STT-1006		240-400	2	630
STT-1007	M42	240-400	1	630
STT-1008		240-400	2	1000
STT-1009		240-400	3	1000
STT-1010	M42	400-630	2	1000
STT-1011		400-630	3	2000
STT-1012		400-630	4	2000
STT-2001 (forMV)	M12	25-150 (Squirrel to Dog)	1	150

*Note: Rating can be changed based on parameters



SHRIPAT Tech-innovation has started innovating a new generation of Electrical Products in market. Now we are introducing product called as "Pre-insulated Jumper Assembly" which is completely ready to directly install on installed bare conductors of LV/MV distribution Lines.

These have been introduced in India by us after collecting challenges through Voice of Customers.

This solution kit contains 3 jumpers made up of MV insulated Cable and 6 customized Connectors. Length can be given as per customer request. **Pre-insulated Jumper Kit for Distribution Transformer MV side** also can be customized as per O&M & application requirements

Industry Challenges

- Unsafe Bare lines
- Bird, Squirrels & others, including Tree branch touch issues for TRIPPINGS.
- Hot spots at Joining locations e.g. at PG clamps & Crimped T-Connections
- O&M issues mainly during rainy season.
- External insulation process is quiet costly and cumbersome
- Non-reliability in existing networks (Revenue Loss....due to faults)



Undesirable
Overheated Connection Hot-Spots
leads to Electrical Line failures

Unreliable
With Safety and O&M Issues
leads to frequent faults due to
Tree, Bird and Animals contacts



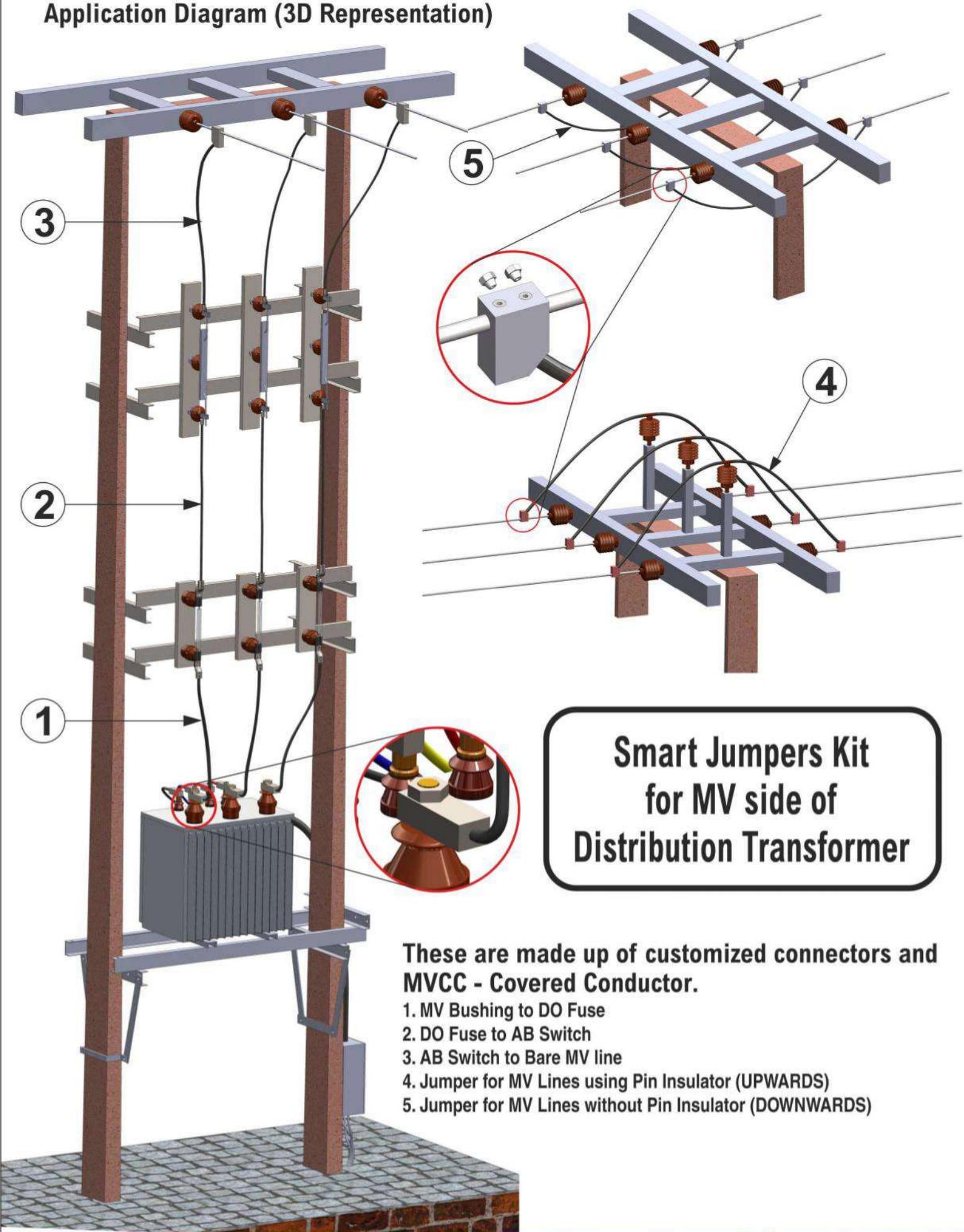
Range : Upto 66KV VOLTAGE level

Features:

- 1) Factory assembled Pre-insulated Jumper Assembly
- 2) Ready to Install Kits for all 3 phases
- 3) Anti-tracking, UV stabilized, Unscreened Insulation upto 66 KV
- 4) Concept : Fit and Forget, Easy to Install
- 5) No external Insulation needed like conductor sleeves/tapes/paints
- 6) Low Temperature Rise due to Minimum Contact Resistance design connection
- 7) No crimping / binding / hammering at connection points (we have Controlled Torque)
- 8) Criss-Cross connections without compromising safety
- 9) Energy Efficient and O&M friendly – "Connect & Insulate" Solution



Application Diagram (3D Representation)



Low Voltage COLD SHRINK Joint with EASYCON Connectors (CSEJ):



"Complete Cold Applied Joint with EASYCON Connectors" gives efficient, easy, human-error free solution for LV cable joining.

Our CSEJ Kits are designed to provide a quick and easy method for protecting Cables/Conductors from the mechanical and environmental effects.

EASYCON - Torque Control Shearing bolted Connector: (NO CRIMPING, NO TOOL)



Failed crimp connector

TORQUE CONTROLLED SHEARING BOLTED FERRULES

- Electrical Joint Application
Proven Design and Manufactured from High Conductivity Al Alloy Factory applied Oxide Inhibiting Compound
- Reliability and Consistency
Manufactured on Automatic CNC Machines
Special Customized Surface Treatment and Finishing
- Advantages over existing connectors
Range Taking Connectors, Accepts Cu/Al* cables
- Simple and Fool-proof Installation by Ratchet Spanner
Torque Controlled Shear Bolt for eliminating human error
Minimum Contact Resistance with Long term stability

COLD SHRINK INSULATING TUBE (NO HEATING)

- Made of EPDM/SILICON rubber offering good mechanical, insulation and sealing protection
- Accommodating a wide range of cable sizes for indoor or outdoor applications
- Easy and Fast installation. No torches or heat required
- Good Thermal & Electrical stability
- Dust and Water Seals tight, retains its resiliency and pressure even after prolonged years of ageing and exposure
- Excellent wet electrical properties



Armour Cast Tape (NO RESIN & HARDNER)

- This is flexible fiber glass fabric Insulating Tape - impregnated with Water Activated PU
- No tools or power source needed
- Eliminates cost of tools and searching for electricity; just add water to Can be used in aerial, buried, and manhole applications
- Versatility of using one product for various network types
- Single Part Number Inventory management can be used for sheath repair or to strengthen existing old cables or splices
- Less expensive option than replacing an entire closure and less time needed in the field to install product
- Armour cast is resistant to moisture, fungus, acid, alkali, ozone, sunlight, gasoline and high temperatures

Cable Range in mm2	16-70		95-150		185-300		240-400		400-630	1000
Designation	CSEJ-01	CSEJ-02	CSEJ-03	CSEJ-04	CSEJ-05	CSEJ-06	CSEJ-07	CSEJ-08	CSEJ-09	CSEJ-10
No. of Cores	1	3.5 / 4	1	3.5 / 4	1	3.5 / 4	1	3.5 / 4	1	1

Comparison between Joint Types

	Parameter	Cast Resin	Heat Shrink	EASY-SHREENK
1	Splice / Ferrule	- Conventional Crimp Connector - Connector as per cable sizes	- Conventional Crimp Connector - Connector as per cable sizes	- Shear Bolt Connectors (No Crimp) - Cable range taking connectors
2	Cable Core Insulation	Non Adhesive tape/patch	Heat Shrink Tubes	Cold Shrink Tubes (No Heating)
3	Cable Core separator	Cores required to be kept separated	No core separator required	No core separator required
4	Inner sheath insulation	No present	Provided by means of water proof tape	Provided by means of water proof tape
5	Outer Sheathing by means of	Plastic Casing/Mesh + Resin	Heat Shrink - Tube or Wrap Around	By means of armour cast (No Heating)
6	Outer Sheathing Sizes	Different Casing sizes as per cable sizes	Different length of tube / wrap around	Standard rolls of length
7	Duration for Cable Charging after Joint complete	Atleast 60 - 90 minutes (to settle resin & voids)	10-15 minutes (to Cool down)	Immediately
8	Shelf life	1 yr expiry for Resin and Hardner	atleast 3 yrs	atleast 3 yrs
9	Weight of kit	Heavy, mainly due to resin + hardner tins	Medium	Light
10	Special precautions	for storage, packing etc... to avoid leakages	no chances of any leakage. No mess	no chances of any leakage. No mess
11	Price point	Cheap	High	Affordable - higher than Cast Resin

For Business Enquiry, Please Contact Our Authorised Partner Below.

EASY-SHREENK JOINT KIT CONTENT

Sr No	Description
1	Shear Bolted Connectors - EASYCON
2	Cold Shrink Tubes
3	Self Amalgamating Tape
4	Non-adhesive PET Tape
5	Support Ring + Hose Clip
6	T.C. Braid / Aluminium Braid
7	G.I. Wire Mesh
8	Armour Cast Tape
9	Other - Consumables

CONNECTORS



PG Clamps

Specifications

- Made up of special Aluminium Alloy. Available in Natural or Cu-Ti plated
- Suitable for Aluminium as well as Copper Conductors/Cables
- Single or Dual or Three bolted
- For Cable Termination to electrical equipments / Tap-offs
- Range Taking

Note: PG Clamps can be provided with shearing bolts

Diameter Range (mm)	No. of Bolts	Capacity Amps
upto Dog	1/2 bolts	upto 250
Dog - Panther	1/2 bolts	upto 630
Zebra - Moose	2/3 bolts	upto 1000
Moose - Bull	2/3 bolts	upto 1250

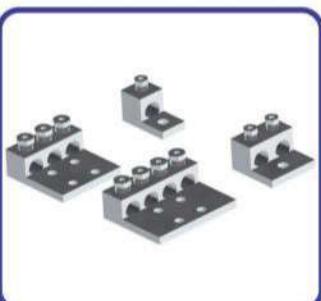


C-Wedge Connector (Boltless)

Specifications

- Boltless Connection System
- Made up of special Aluminium Alloy. Available in Natural or Cu-Ti plated
- Suitable for Aluminium as well as Copper Conductors/Cables
- For Tap-offs / TEE application
- Compact and Energy Efficient design
- Range Taking

Diameter Range	
Squirrel - Weasel	Drake-Zebra
Raccoon - Dog	Moose-Bersimis
Coyote - Panther	Tarantula-Bull



Panel Board Lugs



H-Connector



Split Bolt Connector



Line Tap



Mechanical Lugs



C Connector



V Connector



V Dual Connector



Specifications

- Made up of special Aluminium Alloy. Available in Natural or Cu-Ti plated
- Suitable for Aluminium as well as Copper Conductors
- Single or Dual or Three bolted
- Compact and Energy Efficient design
- Range Taking

Note: Connectors/Clamps can be provided with shearing bolts

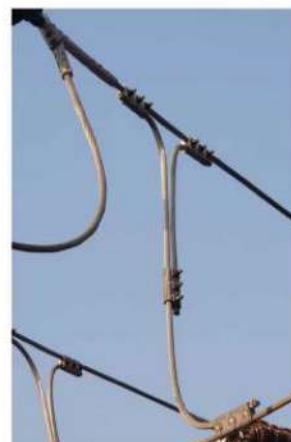
A) Equipment Terminals

To Connect Conductor (Single / twin) to flat or stud or treated stud part of equipment.



B) Tee / Tapoff / Jumper Application

To tap from Conductor via conductor or flat



Insulation Piercing Connector (IPC)

IPCs are applicable for all types of LV-ABC conductors as well as connections in service line system, building electrical system and street lighting system. Installation of IPC can be easily done by tightening the bolts to force the teeth penetrate the insulation of main line and tap line simultaneously.

Stripping of insulation is avoided for both lines.

Specifications

- Main line: Insulated aluminium cable, Tap line: aluminium or copper cable
- Body is moulded from High Strength and weather resistant materials
- Special designed shear head bolt allows efficient installation under controlled shear torque which ensures the contact teeth properly penetrate the conductor without damaging the mechanical strength of the conductor
- Tested for High Voltage test of 6kV for 1min underwater
- Safe live-line installation
- Seals and grease are applied to prevent moisture entering the cable and connector which guarantees excellent waterproof and corrosion resistant performance
- End cap is attached to the body. No loose parts could fall to ground during installation
- Standard: EN 50483-4, NFC 33-020



IPC for Insulated to Insulated application



IPC for Main to Main, Main to Distribution Box,
Main to Service and Street Light applications

Designation →	IPC-001	IPC-002	IPC-003	IPC-004	IPC-005	IPC-006	IPC-007	IPC-008
Main Cable Range mm ²	16-95	16-95	16-95	50-150	50-150	150-300	150-300	150-300
Tap/Service Cable Range mm ²	1.5-16	4-50	16-95	4-50	50-150	4-10	50-150	150-300

Pre-insulated Connectors

CPTAU, Pre-insulated Bimetallic Lug : It is used to establish connection between ABC and electrical equipment.

MJPB, Pre-insulated Aluminium Ferrule (Non-tension) : The MJPB pre-insulated connector are designed for service and lighting cables.

MJPT, Pre-insulated Aluminium Ferrule (Non-tension) : It are designed for LV-ABC with a neutral messenger and is used on the phase conductor

MJPTN, PRE-INSULATED ALUMINIUM CONNECTOR (Under-tension) : It is designed for LV-ABC systems with a neutral messenger and is used on the Messenger which is made up of Aluminium Alloy. These are full tension connector (for taking mechanical load) and have more crimps for better mechanical strength.



CPTAU



MJPB / MJPT



MJPTN

ANCHORING CLAMP FOR INSULATED / BARE MESSENGER

The Anchoring clamps are used to anchor and tighten LV-ABC lines with insulated/Bare neutral messenger.

These clamps are easy to install without tools and suitable for various climatic conditions.

Clamp body is casted of corrosion resistant aluminum alloy with high mechanical strength and bail is made of Stainless Steel. Wedges are made of weather resistant material. Insulated clamp body - optional.

Standard: NFC33-041, EN 50483-3 & *REC or IS standard for Bare / insulated.



ANCHORING CLAMP - Insulated			
	PA1000	PA1500	PA2000
Size Range	25-35	50-70	70-95



ANCHORING CLAMP ASSEMBLY - Insulated			
	EA1000	EA1500	EA2000
Size Range	25-35	50-70	70-95

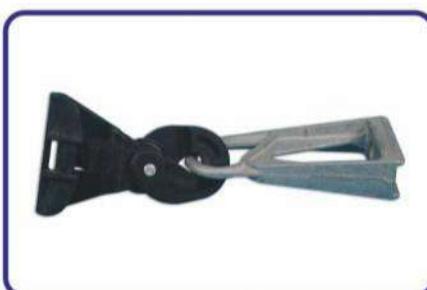


ANCHORING CLAMP - Bare*			
	AC-B-01	AC-B-02	AC-B-03
Size Range	25-50	50-95	120-240

SUSPENSION CLAMP

Suspension clamps are used to hang LV-ABC cables on poles with the insulated/Bare neutral messenger.

- o Bracket is pre-installed. Easy cable installation without tools
- o The neutral messenger is placed in the groove and locked by an adjustable grip device to different cable sizes
- o The clamp and movable link is made from weather resistant and mechanically reliable insulated polymer
- o The anchoring bracket is made of corrosion resistant aluminum alloy
- o Al. Alloy body in case of clamp for bare messenger
- o No loose parts
- o Standard: NFC 33-040, EN 50483-3& *REC or IS standard for Bare / Insulated



SUSPENSION CLAMP - Insulated			
	PS1000	PS1500	PS2000
Size Range	25-35	50-70	70-95

SUSPENSION CLAMP ASSEMBLY - Insulated			
	ES1000	ES1500	ES2000
Size Range	25-35	50-70	70-95

SUSPENSION CLAMP - Bare*			
	SC-B-01	SC-B-02	SC-B-03
Size Range	25-50	50-95	120-240

PA/PAS, SERVICE ANCHORING CLAMP

The Service Anchoring clamp is designed to anchor service line with 2 or 4 service ABC conductors or LV Underground Cables.

- Clamp body is made of high mechanical strength and weather resistant insulation material
- Special designed clip is used to prevent the bail slipping from the body
- Tool free installation
- Standard: NFC33-042



SERVICE ANCHORING CLAMP		
FOR SERVICE ABC	PA25	PAS35
	mm2	Cable ø
Size Range	10-25	10-30

POLELINE CLAMPS

SHRIPAT Tech-Innovation has developed and customized pole clamps as per customer specifications as well as application requirements.

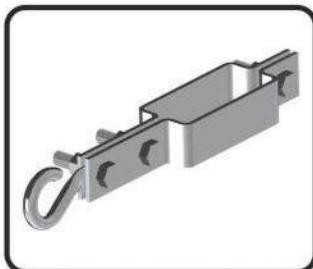
In current scenario, utilities are using Rectangular, Square, Round and Beams like I and C shapes. different size of cables/conductors requires different load requirements for installation and hence different load rating clamps are available with us.



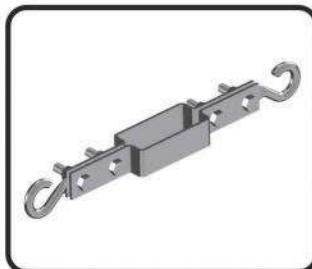
Flat Eye Hook



Hook Bolt Through Pole



Flat Eye Hook and Clamp
for Rectangular PCC Pole
(Single sided)



Flat Eye Hook and Clamp
for Rectangular PCC Pole
(Double sided)



Flat Eye Hook and Clamp
for Round Pole
(Single sided)



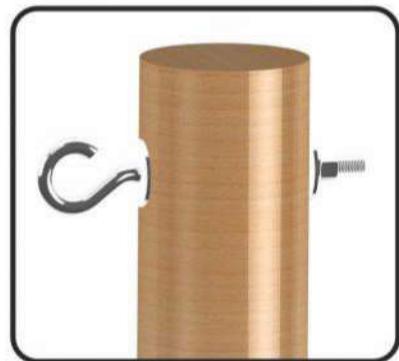
Multipurpose (2 pc) Clamp
for Round Pole



Multipurpose (4 pc) Clamp
for Round Pole



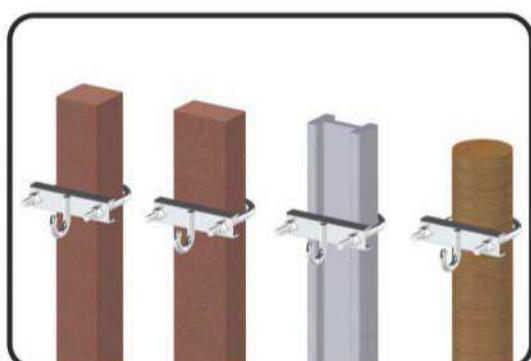
Universal Clamp



Installed -
Hook Bolt Through Pole



Comparison -
"Flat Eye Hook &
Clamp" Vs "Hook Bolt
Through Pole"



Universal Clamp installed on
different poles



Brass Cable Glands



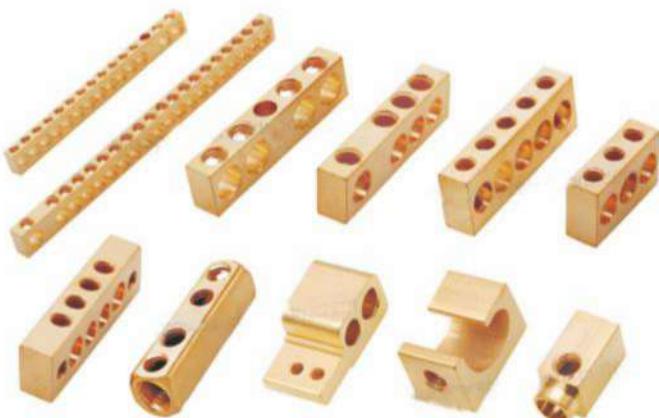
Polymer Cable Glands



Earthing Components



Earthing Rods



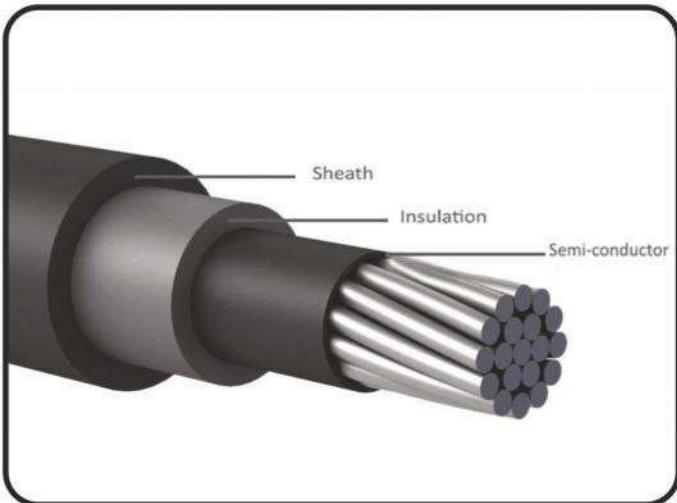
Brass/Aluminium Busbars (Screw)



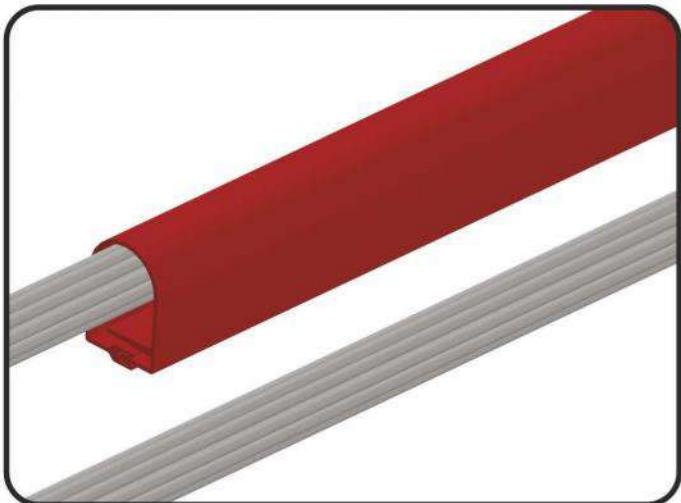
Brass Inserts



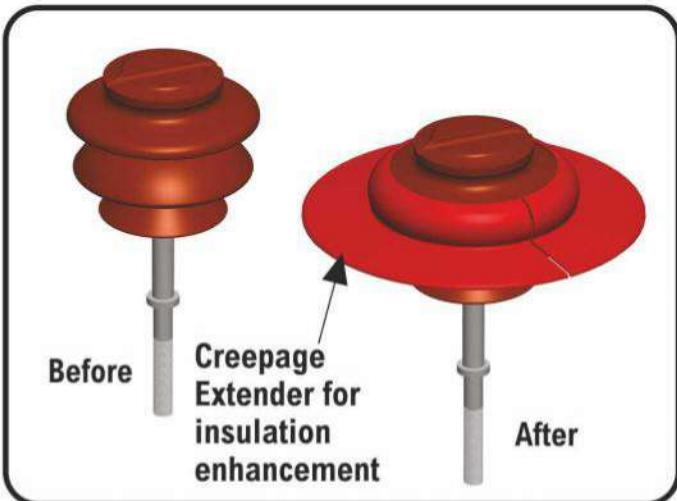
Brass Anchors



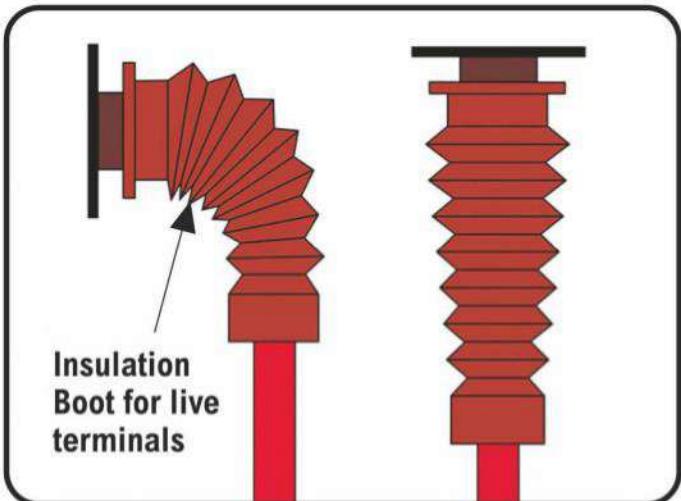
Covered Conductor



Insulation Cover for Bare Lines



Creepage Extender



Insulation Boot

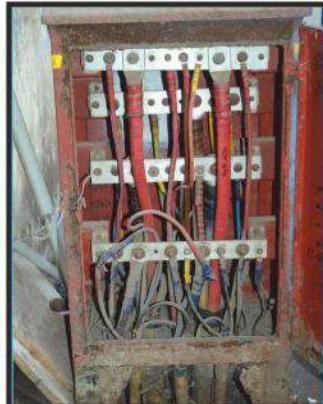


Electro-Mechanical Helmet



Insulation Mats for electrical premises

Electrical Issues or Problems faced by Customers



Safety & Theft Issues from Feeder Pillars

Tempering from Meter Boxes

DISTRIBUTION BOX

For multi-tapping application in domestic connections instead of large no of IPCs, utilities prefer to have DB which is Plastic Enclosure and connections within. These boxes are made up of Weather-Resistant plastic which are reliable for OUTDOOR application. Connections can be of bolted/screwed or latest spring loaded.



Junction Box / Distribution Box

Designation	Single Phase	Three Phase
DB - SP - 0109	9	0
DB - SP - 0118	18	0
DB - TP - 0104	0	4
DB - TP - 0109	0	9

METER BOX

These boxes are mainly used for SPN and TPN meters at consumer end and have combinations as follows

Pre-wired Box for Energy Meters Connections		
Type	Single Phase	Three Phase
2 Way	PWMB - 2 - SP	PWMB - 2 - TP
4 Way	PWMB - 4 - SP	PWMB - 4 - TP
8 Way	PWMB - 8 - SP	

MINI PILLAR BOX / SERVICE PILLAR

These boxes are made up suitable Polymer or metal CRCA sheet with Powder Coating and have below combination



Mini Feeder Pillar Box / Mini Pillar / Service Pillar

Designation	Single Phase	Three Phase
Mini FPB - 1-1-0306	18	6
Mini FPB - 1-1-0308	24	8

STREET LIGHT BOX

These boxes are having provision of taking SPN connection from TPN (4 CORE) Cable. It mainly have IN-OUT system in plastic box where one tap also taken for street light.

STREET LIGHT BOX		
Designation	Single Phase	Three Phase
SLB - 0301	1	1
SLB - 0101	1	0

Specifications

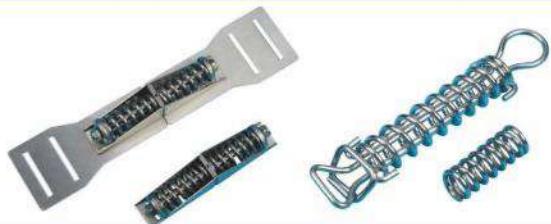
- Poly-Carbonate (PC-GF) thermoplastic or Power-coated Metal enclosure
- The polymer enclosure shall have a transparent front lid for enabling easy visibility.
- IP44 / IP55 / IP 65 / IP 66 degree of protection for Dust, Water and Vermin entry.
- Minimum requirements for fire protection in the event of internal faults:
- Glow wire test in accordance at 960C for box and 850C for conducting components.
- Flammability: Base part of PC Enclosure UL94-V-0 compliant
Lid part of PC Enclosure UL94-V-2 compliant.
- IK 08degree of protection for mechanical load.
- Temperature rating of -10C to 55C.
- Chemically resistant to acid, lye, petrol, and mineral oil
- Voltage rating of 1000V DC and dielectric strength of 4.65 KV DC.
- UV stabilized and Weatherproof, suitable for OUTDOOR application
- Assembled with suitable SPD make/ratings as per purchaser's approval.
- Suitable polymer cable glands of appropriate sizes for both incoming and outgoing cables.
- Suitable cable entry points fitted with MC-4 Connectors, if required.

Fuse and SPD protection as per design



BANDS / STRAPS & BINDING TOOL

SS and Aluminum Straps of width 13, 16, 19, 40 & 50mm.
SS Grades - 302, 304, 316 Thickness 0.6/0.7/0.8mm



COMPRESSION / MITY SPRINGS

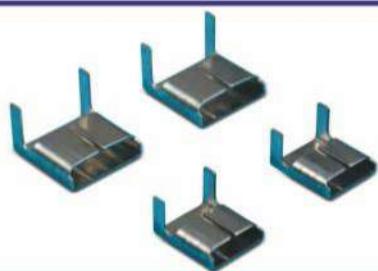
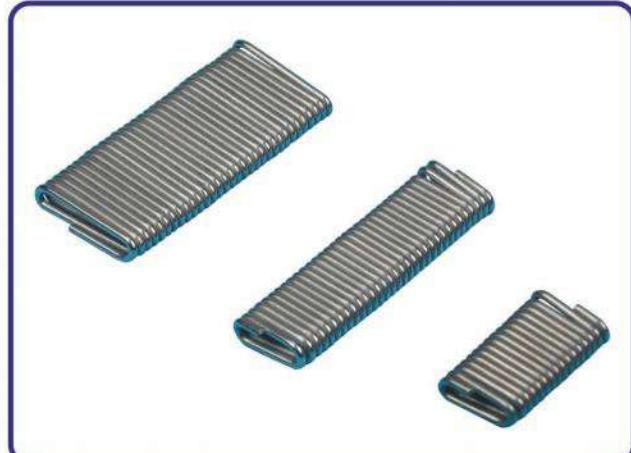
Mitty / Compression springs are assembled from components of Type 302 and 304 stainless steel.

They are used with strapping to accommodate expansion and contraction of large diameter insulated and jacketed piping, tanks, vessels, and equipment. Standard springs provide desired compression, and can be used with strapping widths up to 50mm

EXPANSION / FLAT SPRINGS

These 2" (50mm) & 4" (100mm) Type 302 or 304 stainless steel flat expansion springs are used to secure insulation over small diameter insulated piping, tanks, vessels, and equipment subject to expansion and contraction. They can also be used with any common width of strapping up to 50mm.

SS BANDS AND ACCESSORIES (201/302/304/316 GRADE)		
SS Bands or Straps (Thickness 0.3 to 0.7mm)	Width 1/2" or 13mm	Width 3/4" or 19mm
SS Wing Seals or Buckles	for 13mm	for 19mm
SS Mitty or Compression Spring	for 19mm	for 40mm
SS Flat or Expansion Spring	for 19mm	for 40mm



WING SEALS / BUCKLES

Stainless Steel Wing Seals are manufactured from SS-304 stainless steel.

These seals are 0.7-0.8mm in thickness to allow for maximum tensioning and binding power. They are available in 13mm(1/2"), and 19mm (3/4") widths.

For light duty applications like HVAC, Aluminum wing seals are available as per desired width & thickness

(Note: Any other material grades, size and packing instructions for any accessories can be provided as per customer request, based on pre-approved drawings or specifications.)

INSPECTION PLUGS FOR VESSEL OR PIPE

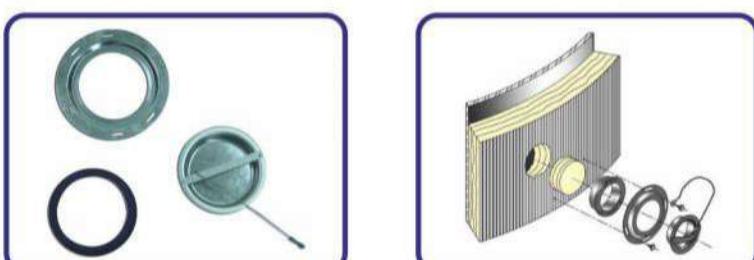
Vessel Inspection Plugs are removable access ports (seals/plugs) for EPA/OSHA Process Safety Management and Mechanical Integrity testing under insulation.

Nondestructive preventative maintenance allows access to monitor & inspect the structural integrity of process piping without damage.

NDT inspections are made to assess surface corrosion (CUI) and vessel integrity of insulated processing & refining pipelines.

NDT plugs are manufactured to professional standards for use in Bio, Chemical, Pharma, Steam, Co-Gen, Nuclear, Petrochem and other industrial process and refining applications. Made in INDIA.

NDT PLUGS FOR INSPECTION		
Size	Aluminum	Stainless Steel
38mm (1.5")	SANP38	SSNP38
64mm (2.5")	SANP64	SSNP64
76mm (3.0")	SANP76	SSNP76
102mm (5.0")	SANP102	SSNP102



Cable Clamping Solutions

Application

For mounting and clamping of single core, 3 runs of single core or multicore LV, MV or HV Cables on cable trays or any other Support structures.

Range

- For cables with an overall diameter of Ø 15 mm up to 170 mm.
- Unique stacking feature.
- Temperature range from -40°C to 120°C. (225°C momentarily).
- Coloured black and other colours for Indoor applications as requested
- Non magnetic / non conductive.
- Recyclable simple installation.
- Resistant to oils, fats, UV, ozone, heat, salt, moisture, acids, alkalis and even nuclear radiation.
- V-0 (UL94) self extinguishing, Halogen-free.
- Available pre-mounted.
- Non oxidizing / non corrosive. No sharp angles.

Single Clamp



Type	SINGLE 15-26	SINGLE 26-38	SINGLE 36-52	SINGLE 50-75	SINGLE 75-100	SINGLE 100-135	SINGLE 135-170
Cable ø	15-26	26-38	36-52	50-75	75-100	100-135	135-170

Trefoil Clamp



Type	TREFOIL 27-38	TREFOIL 38-51	TREFOIL 51-69	TREFOIL 69-90	TREFOIL 90-118	TREFOIL 118-150
Cable ø	3 x 27 - 38	3 x 38 - 51	3 x 51 - 69	3 x 69 - 90	3 x 90 - 118	3 x 118 - 150

Trefoil U-Bolted Clamp



Type	US - 01	US - 02	US - 03	US - 04	US - 05	US - 06
Cable ø	3 x 27 - 38	3 x 38 - 51	3 x 51 - 69	3 x 69 - 90	3 x 90 - 118	3 x 118 - 150

(can be used for retrofittment)

OTHER CLAMPS



Anti-vibration Clamp



Pipe or Tube Clamp



Tension Ties also called
Cable ties

Notes:



Clamps



CNC Machined Components



Custom Products



Fasteners

