

**essex** **X-Ray**  
High voltage technology

## **INDUSTRIAL CABLE ASSEMBLIES**



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# OVERVIEW

## CABLE DATA

	<b>C2212</b>	<b>C2042</b>	<b>C2338</b>
Rated Voltage	100kVDC	230kVDC	320kVDC
Impedance	53Ω	59Ω	61Ω
Capacitance	131pF/m	115pF/m	102pF/m
Minimum Bend Radius	101mm	152mm	190mm
Minimum Ambient Temperature	-51°C	-51°C	-51°C
Maximum Conductor Temperature	121°C	121°C	121°C
Weight	0.49kg/m	1.07kg/m	1.63kg/m
Outer Diameter	19.9mm	31.1mm	38.2mm

## CONNECTOR TYPE

	<b>R10</b>	<b>R10 RA</b>	<b>R24</b>	<b>R24 RA</b>	<b>R28</b>	<b>R28 RA</b>	<b>R30</b>	<b>R30 RA</b>
C2212	100kV	100kV	100kV	100kV	-	-	-	-
C2042	-	-	225kV	225kV	225kV	225kV	230kV	230kV
C2338	-	-	-	-	-	-	300kV	300kV

## STANDARD FLANGES

<b>Part Number</b>	<b>Description</b>	<b>Length</b>	<b>Thread</b>
T20051/A	100kV Straight	80mm	-
T20052	100kV Straight	85mm	-
T20785/A	100kV Right Angle Small	25mm	M48 x 1.5mm
T20785/B	100kV Right Angle Large	25mm	M48 x 1.5mm
T20131/A	160kV Straight	102.38mm	M45 x 1.5mm
T20697	160kV Straight	102mm	M45 x 1.5mm
T20045/D	160kV Right Angle	100mm	M45 x 1.5mm
T20697/A	160kV Right Angle	87mm	M45 x 1.5mm
T20096/D	160kV Quick Lock	107mm	M45 x 1.5mm
T20844	160kV Small Right Angle	70mm	M45 x 1.5mm
T22179	160kV Spring Loaded	70mm	M45 x 1.5mm
T20172/A	210kV Straight	110mm	M62 x 1.5mm
T22185	210kV Spring Loaded	104mm	M62 x 1.5mm
T20289	225kV Straight	118mm	M56 x 1.5mm
T20405	225kV Right Angle	105mm	M56 x 1.5mm
T22182	225kV Spring Loaded	104mm	M56 x 1.5mm

## SPRING LOADED CONNECTORS



- ❖ Spring loaded cables have a mechanical spring built in to the ferrule
- ❖ The tension of a sprung termination creates constant pressure in the receptacle
- ❖ Simple to install creating a tight, secure connection
- ❖ Eliminates over-gapping and the need for re-gapping after installation
- ❖ Compatible sprung flanges are available to complete the installation
- ❖ Increases the service life of cable and tube
- ❖ Lower installation and maintenance costs

\* When ordering please use the abbreviation 'SL' to denote a spring loaded connector

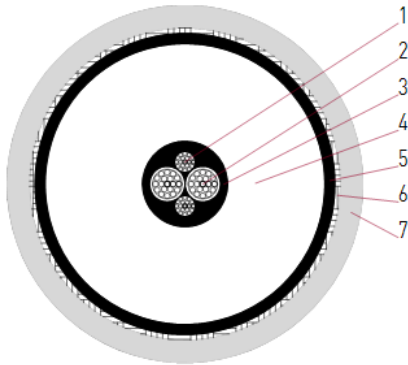
## HOW TO ORDER

	<b>Cable Type</b>	<b>Connector</b>	<b>Connector</b>	<b>Length</b>
Cable Assembly	C2042	R24	R28	5m
Flange	T20131/A & T20289			

\*Example R24 - R28 cable assembly with straight connectors

# C2212

100kV 3 Core Type S



<b>1. Conductor</b>	2x bare Cu/Sn AWG18 (19x0.24mm, t.p.c), AWG15 in total	
<b>2. Conductor</b>	2x Cu/Sn AWG15, (19x0.33mm, t.p.c), Polyester Tape Insulation, Rated Voltage 1kV <sub>DC</sub>	
<b>3. Semicon</b>	Semiconductive EPR (Black)	Ø 4.8mm
<b>4. Dielectric</b>	EPR	Ø 15.8mm
<b>5. Semicon</b>	Semiconductive EPR (Black)	Ø 16.9mm
<b>6. Braid</b>	Cu/Sn (Coverage ≥80%)	Ø 17.5mm
<b>7. Jacket</b>	PVC	Ø 16.9mm

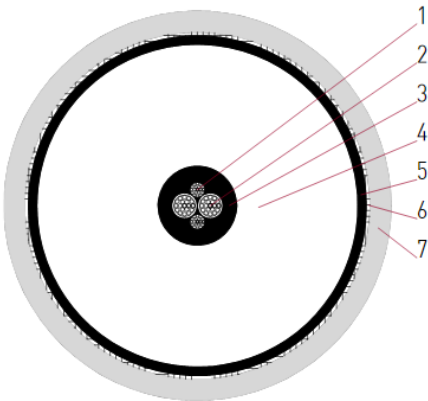


## TECHNICAL DATA

<b>Operating Voltage</b>	100kV <sub>DC</sub>
<b>Impedance</b>	53Ω
<b>Capacitance</b>	131pF/m
<b>Minimum Bend Radius</b>	101mm (Static)
<b>Minimum Ambient Temperature</b>	-51°C
<b>Maximum Conductor Temperature</b>	60°C
<b>Weight</b>	0.49kg/m
<b>Outer Diameter</b>	15.7mm
<b>Colour</b>	Grey

# C2042

230kV<sub>DC</sub> EPR Dielectric



<b>1. Conductor</b>	2x bare Cu/Sn AWG18 (7x0.24mm t.p.c.)	
<b>2. Conductor</b>	2x Cu/Sn AWG16 (19x0.24mm t.p.c.) Tefzel Insulation, Rated Voltage: 5kV <sub>DC</sub>	
<b>3. Semicon</b>	Semiconductive EPR (Black)	Ø 6.1mm
<b>4. Dielectric</b>	EPR	Ø 24.9mm
<b>5. Semicon</b>	Semiconductive EPR	Ø 26.2mm
<b>6. Braid</b>	Cu/Sn (Coverage ≥ 80%)	Ø 26.8mm
<b>7. Jacket</b>	PVC (Black)	Ø 31.1mm

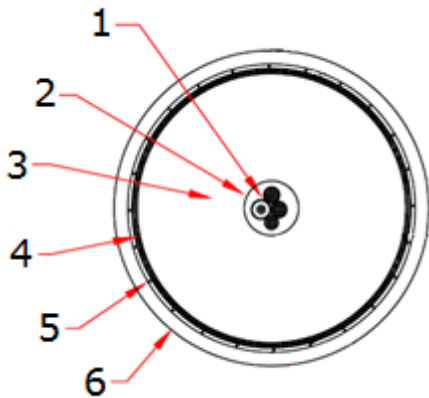


## TECHNICAL DATA

<b>Operating Voltage</b>	230kV <sub>DC</sub> /75kV <sub>AC</sub>
<b>Impedance</b>	59Ω
<b>Capacitance</b>	115pF/m
<b>Minimum Bend Radius</b>	152mm
<b>Minimum Ambient Temperature</b>	-51°C
<b>Maximum Conductor Temperature</b>	121°C
<b>Weight</b>	1.07kg/m
<b>Outer Diameter</b>	31.12mm
<b>Colour</b>	Black
<b>Production Test Voltage</b>	90kV RMS (60Hz) – 20 minutes
	Core Conductor to Bare Conductor 5kV RMS – 15 seconds

# C2338

320kV<sub>DC</sub> 4 Core X-Ray



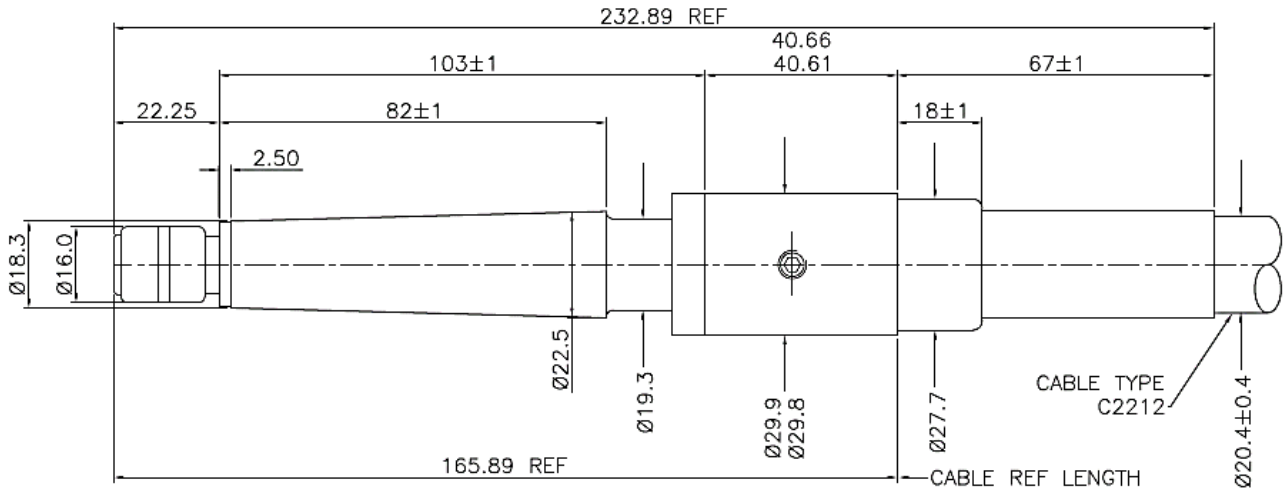
<b>1. Conductor</b>	2x #15AWG (19x0.131") Tinned Copper with .006 Mylar Tape (1x White, 1x Black), 1x #20AWG (7x0.126") Copperweld with .024 Fusible Mylar 0.002" Metalized Mylar Tape, 1x #15AWG (19x.0131") Tinned Copper Uninsulated	
<b>2. Semicon</b>	EPR	Ø 6.6mm
<b>3. Dielectric</b>	Insulating EPR	Ø 32.51mm ± 0.5mm
<b>4. Semicon</b>	EPR	Ø 33.78mm ± 0.5mm
<b>5. Braid</b>	Shield #34AWG T.C. 9 Ends, 24 Carrier 80% Minimum Coverage	Ø 34.80mm ± 0.5mm
<b>6. Jacket</b>	PVC	Ø 38.22mm ± 0.64mm



## TECHNICAL DATA

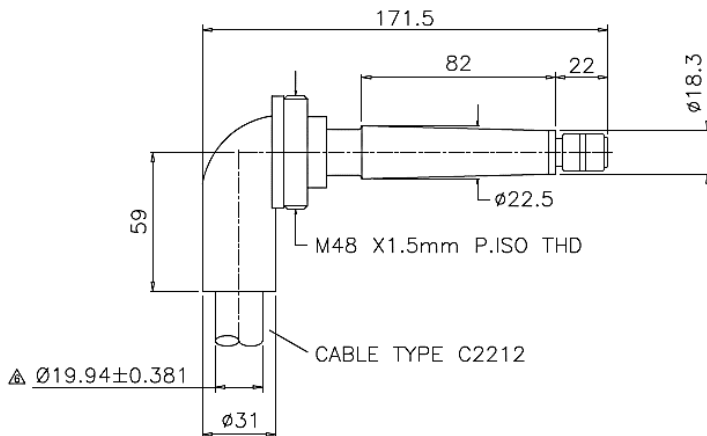
<b>Operating Voltage</b>	320kV <sub>DC</sub> /115kVAC
<b>Impedance</b>	61Ω
<b>Capacitance</b>	102pF/m
<b>Minimum Bend Radius</b>	190.5mm
<b>Minimum Ambient Temperature</b>	-51°C
<b>Maximum Conductor Temperature</b>	121°C
<b>Weight</b>	1.63kg/m
<b>Outer Diameter</b>	38.23mm
<b>Colour</b>	Black

## R10 TERMINATIONS



### R10 Straight 100kV Phillips on C2212

Compatible Flanges – T20051/A, T20052

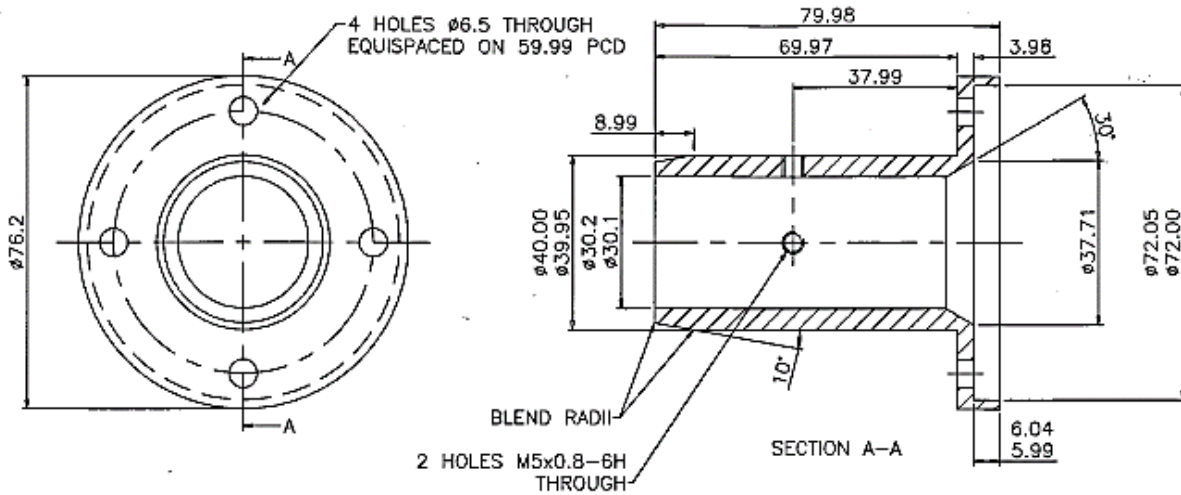


### R10 Right Angle 100kV Phillips on C2212

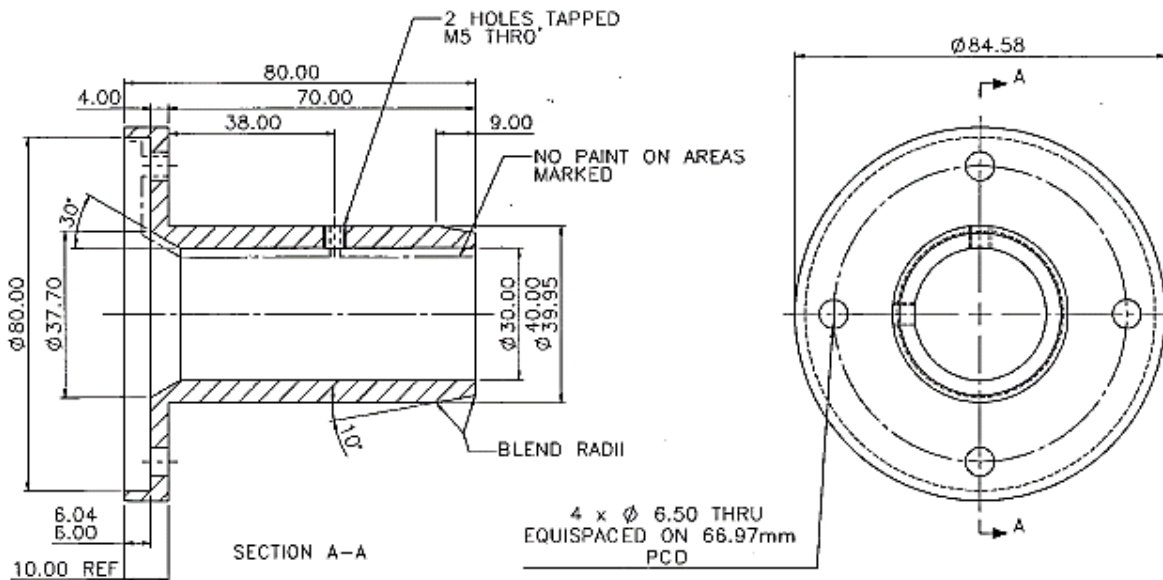
Compatible Flanges – T20785/A, T20785/B



## R10 FLANGES



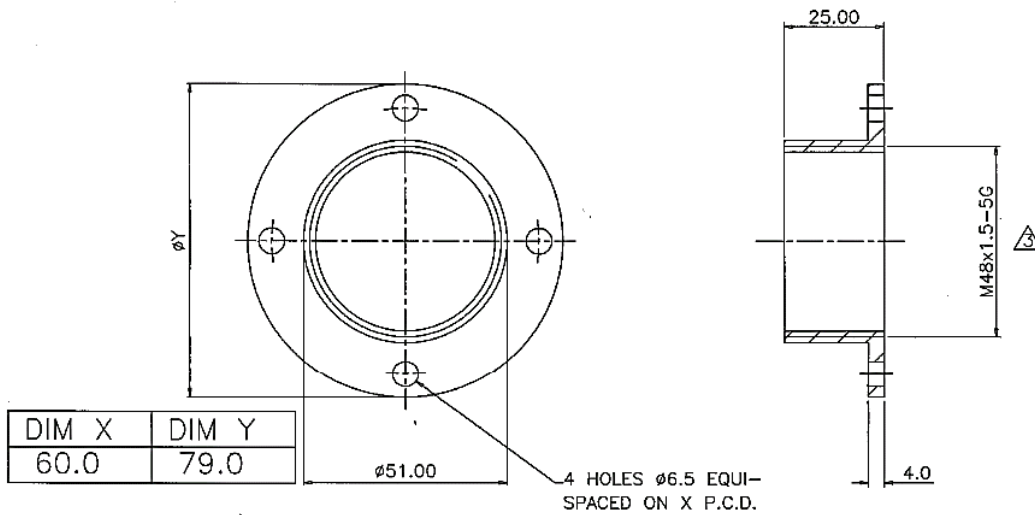
*R10 Straight Flange Small*  
Part Number - T20051/A



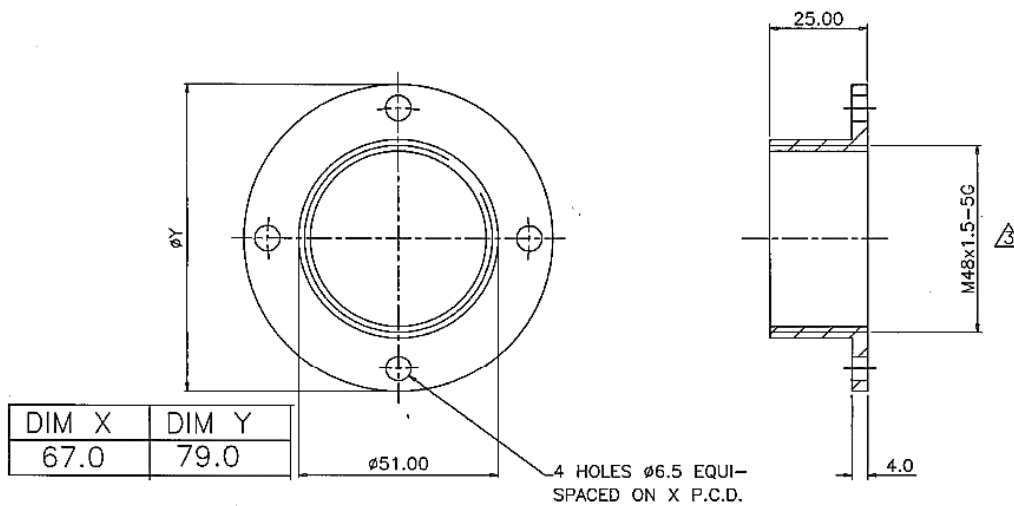
*R10 Straight Flange Large*  
Part Number - T20052



## R10 FLANGES

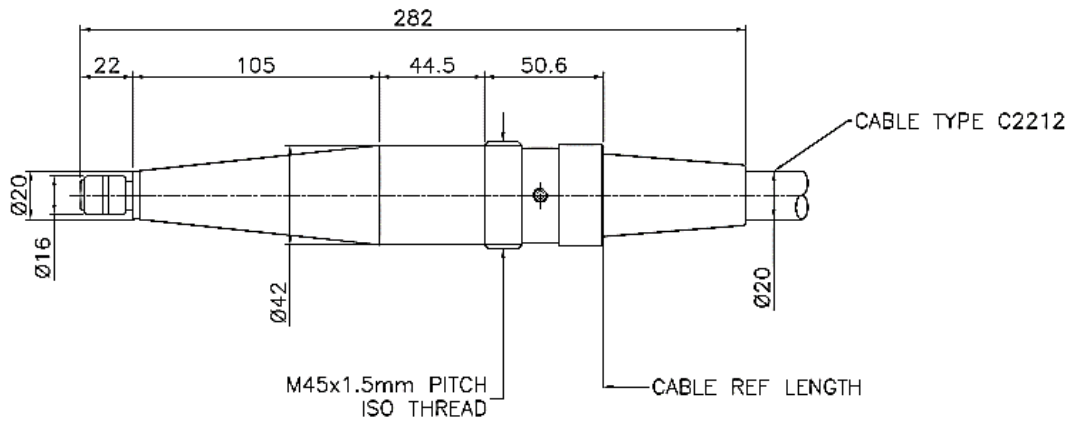


*R10 Right Angle Flange Small*  
Part Number – T20785/A



*R10 Right Angle Flange Large*  
Part Number – T20785/B

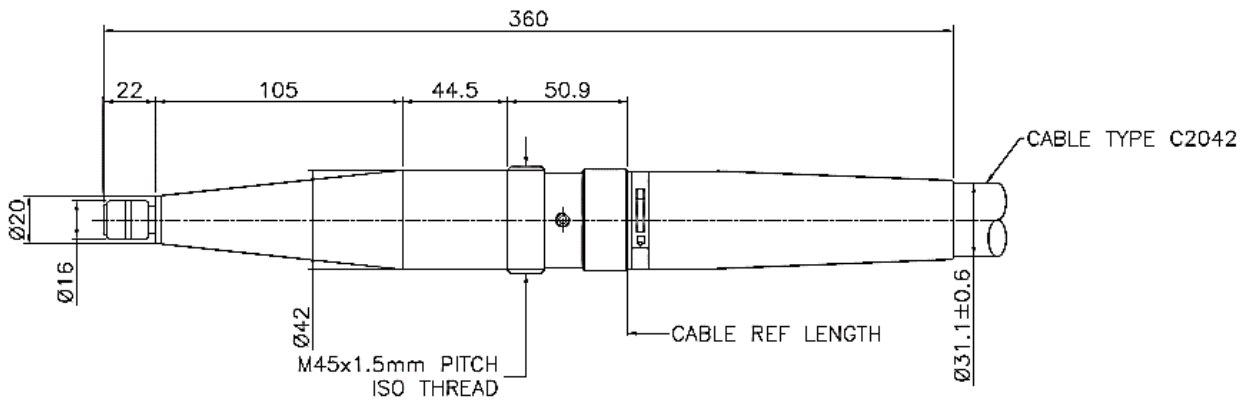
## R24 TERMINATIONS



THIS DATA SHEET IS FOR IDENTIFICATION  
PURPOSES ONLY. NOMINAL DIMENSIONS IN MM.

### R24 Euro Straight on C2212

Compatible Flanges – T20131/A, T20697, T22179

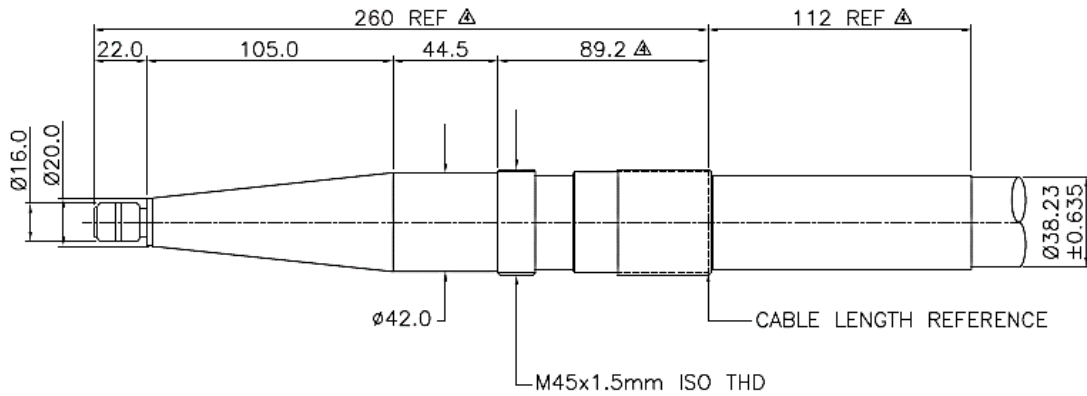


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PURPOSES ONLY. NOMINAL DIMENSIONS IN MM.

### R24 Euro Straight on C2042

Compatible Flanges – T20131/A, T20697, T22179

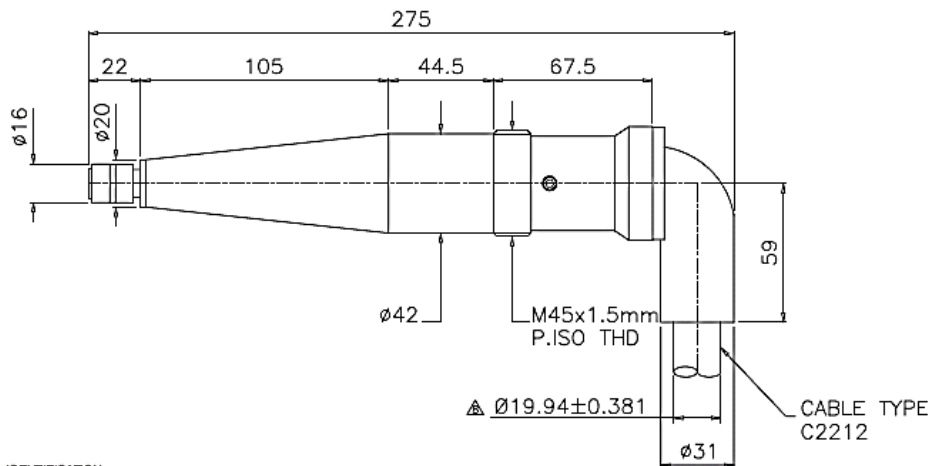
## R24 TERMINATIONS



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### R24 Euro Straight on C2338 (M45 Thread)

Compatible Flanges - T20131/A, T20697, T22179

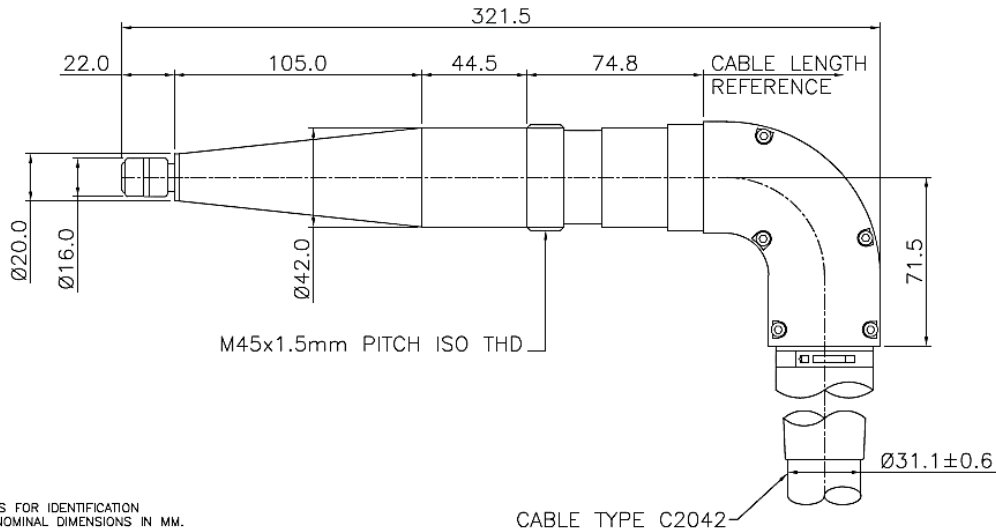


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### R24 Right Angle Small on C2212

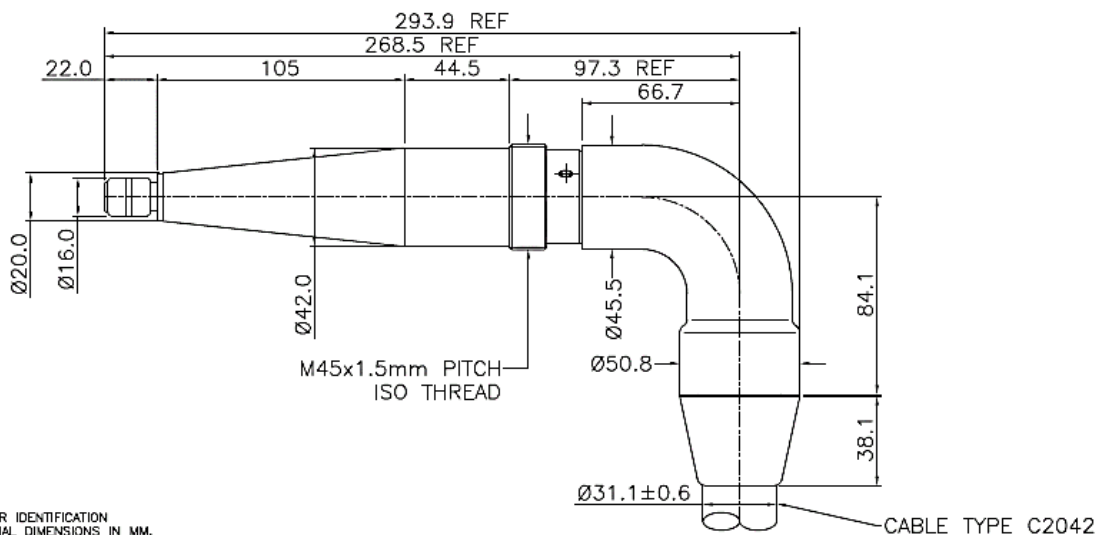
Compatible Flanges - T20844, T22179

## R24 TERMINATIONS



### R24 Euro Right Angle on C2042

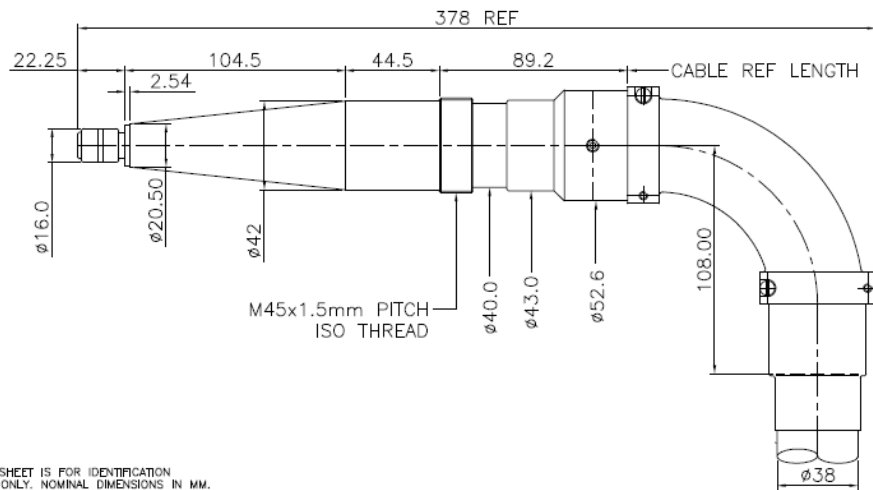
Compatible Flanges – T20045/F, T20697/A, T20844, T22179



### R24 Euro Right Angle Short on C2042

Compatible Flanges – T20844, T22179

## R24 TERMINATIONS

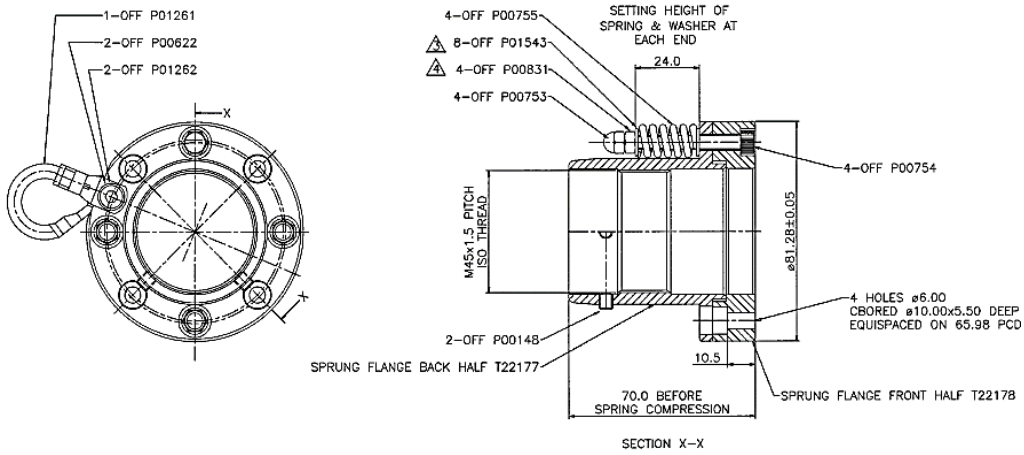


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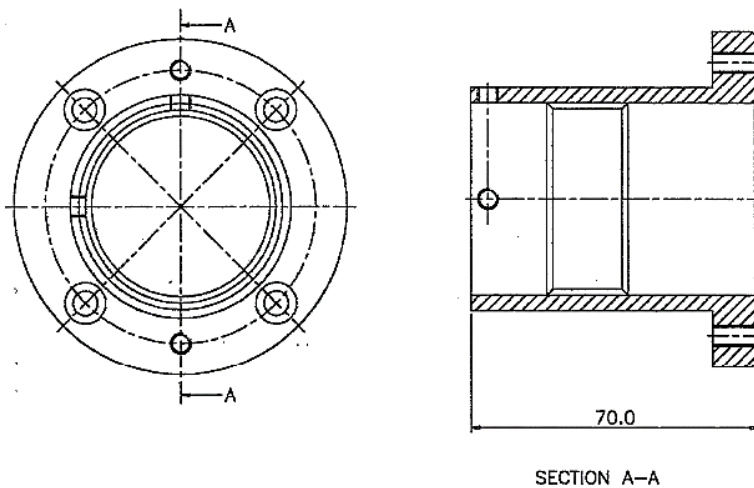
**R24 Euro Right Angle on C2338**  
Compatible Flanges – T20131/A, T20697, T22179



## R24 FLANGES



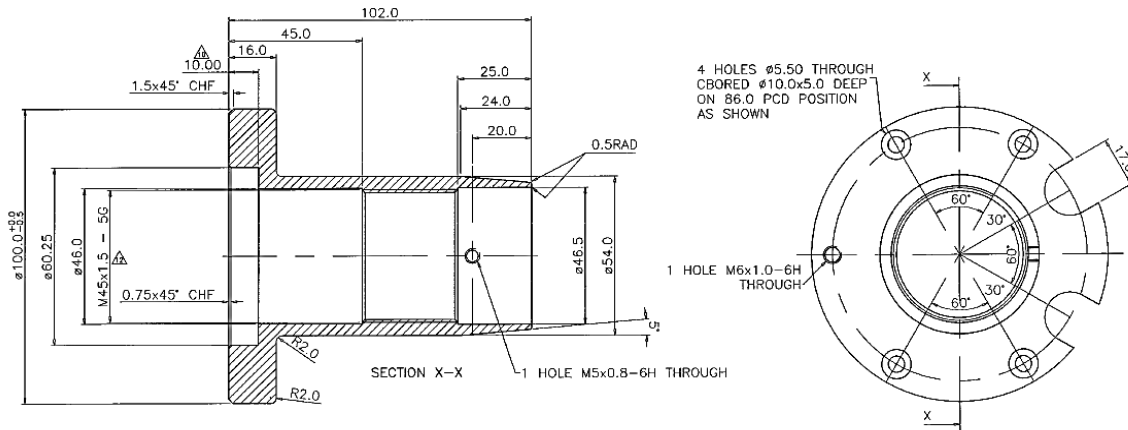
*R24 Sprung Flange*  
Part Number - T22179



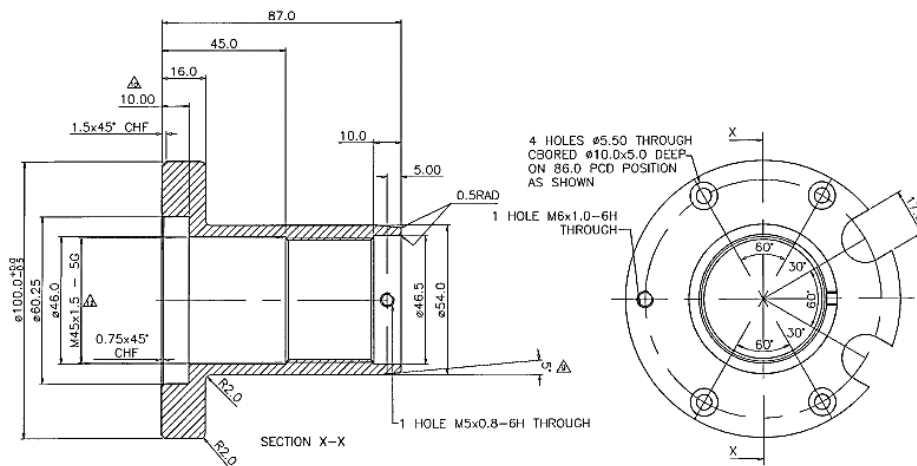
*R24 Right Angle Flange Small*  
Part Number - T20844



# R24 FLANGES

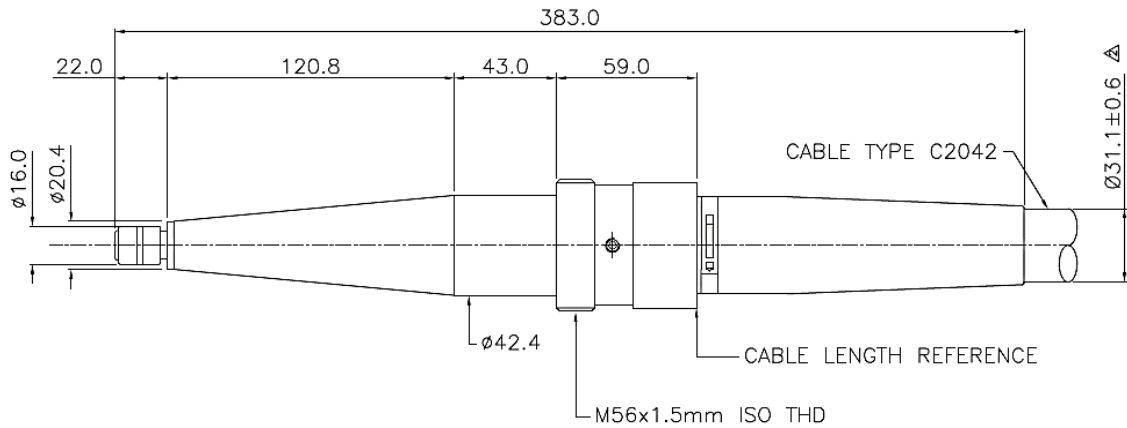


R24 Straight Flange c/w Twin Cut Outs  
Part Number - T20697



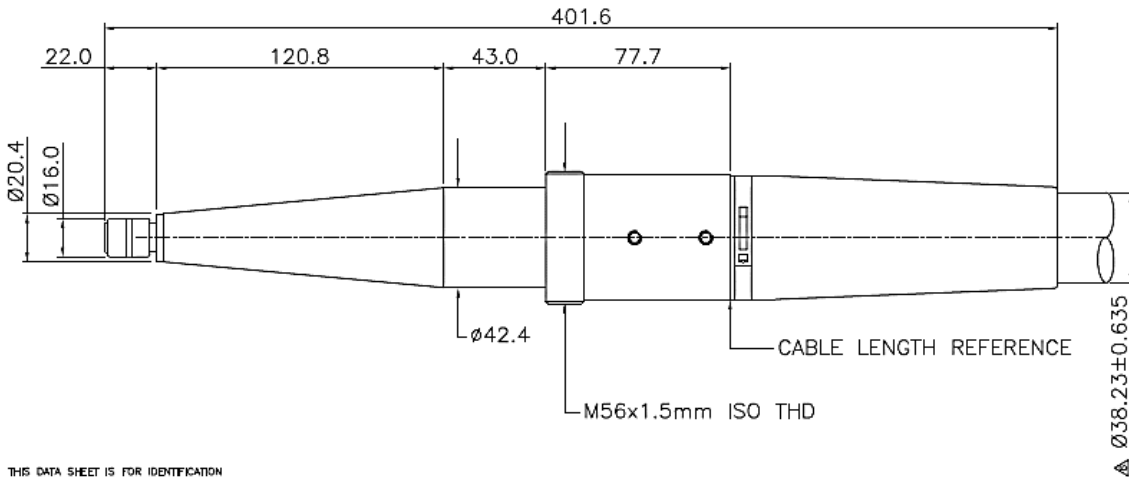
R24 Right Angle Flange c/w Twin Cut Outs  
Part Number - T20697/A

## R28 TERMINATIONS



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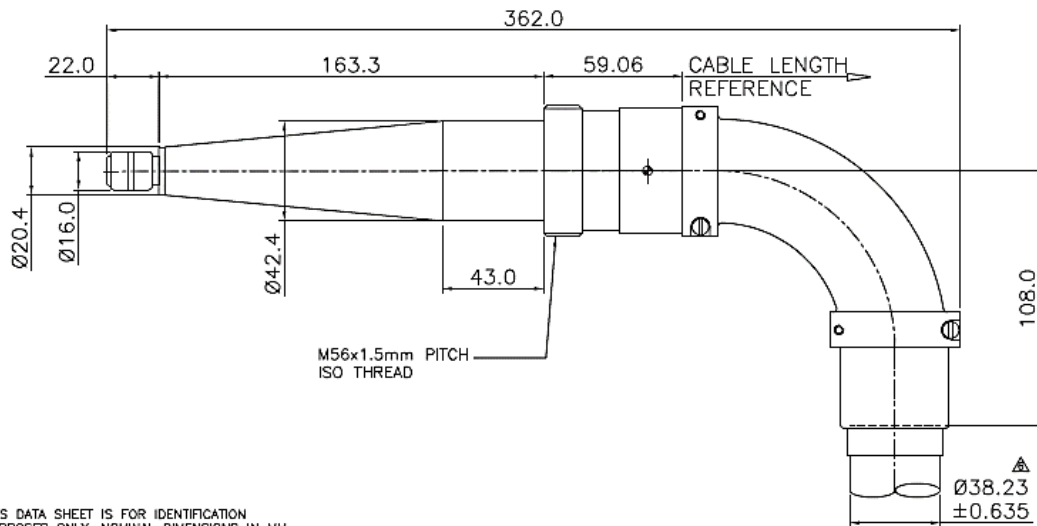
### R28 Straight on C2042 Compatible Flanges - T20289, T22182



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### R28 Straight on C2338 Compatible Flanges - T20289, T22182

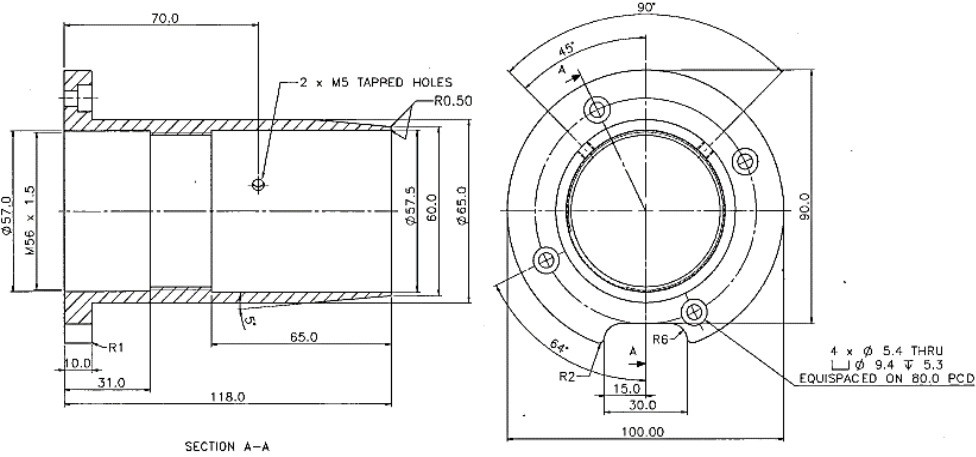
## R28 TERMINATIONS



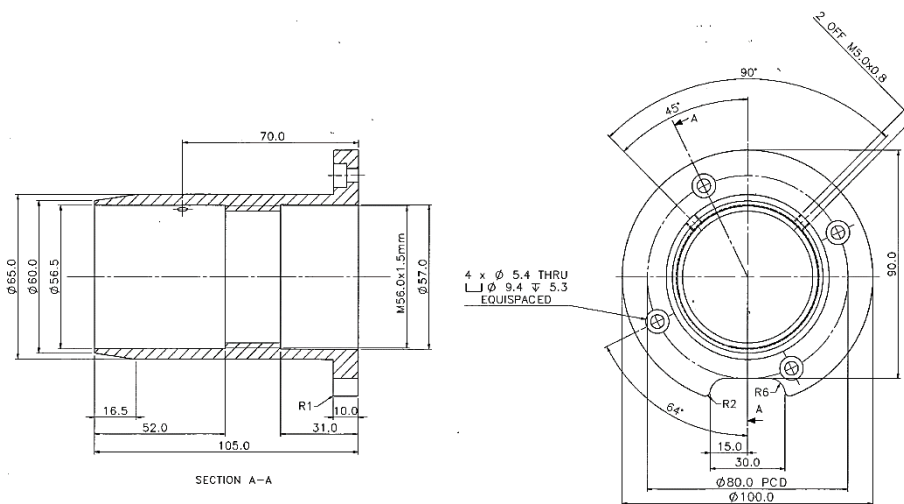
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*R28 Right Angle on C2338*  
Compatible Flanges – T20405

## R28 FLANGES

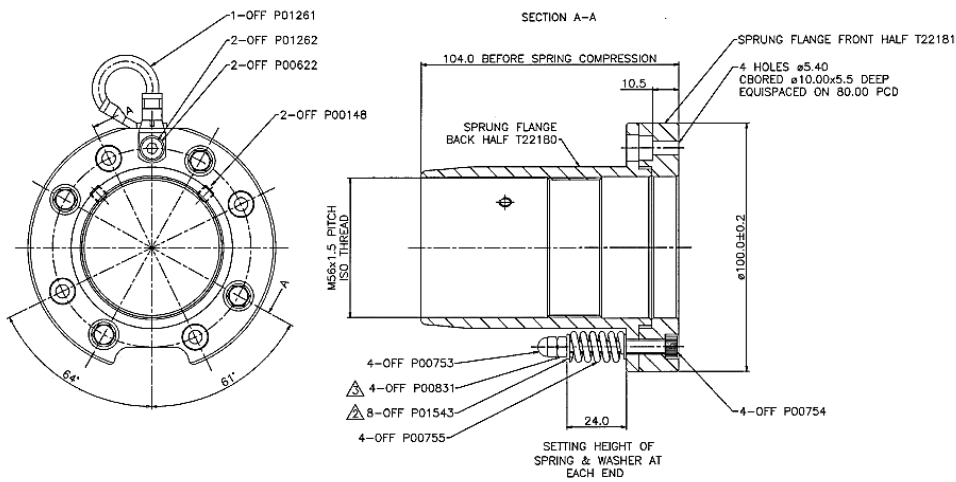


*R28 Straight Flange*  
Part Number – T20289



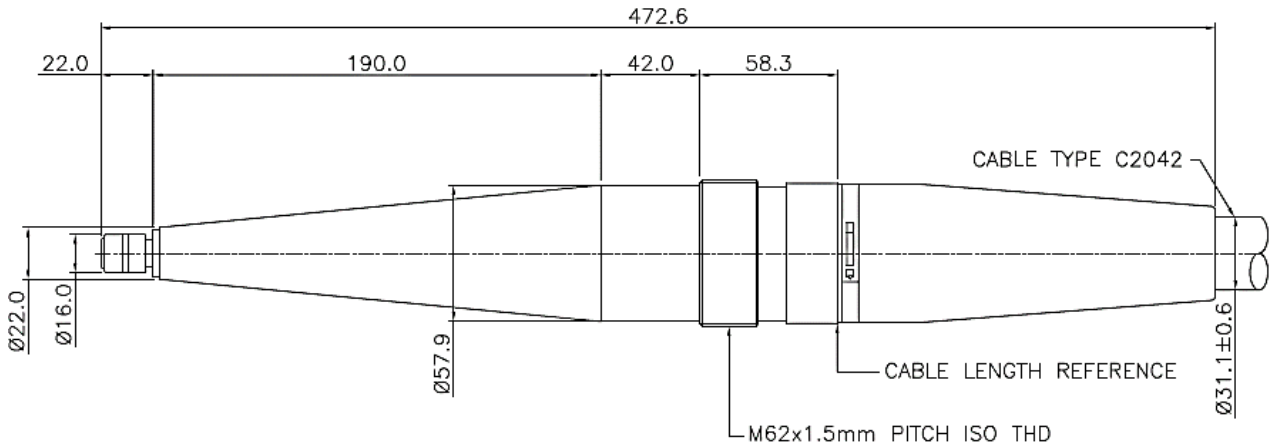
*R28 Right Angle Flange*  
Part Number – T20405

## R28 FLANGES



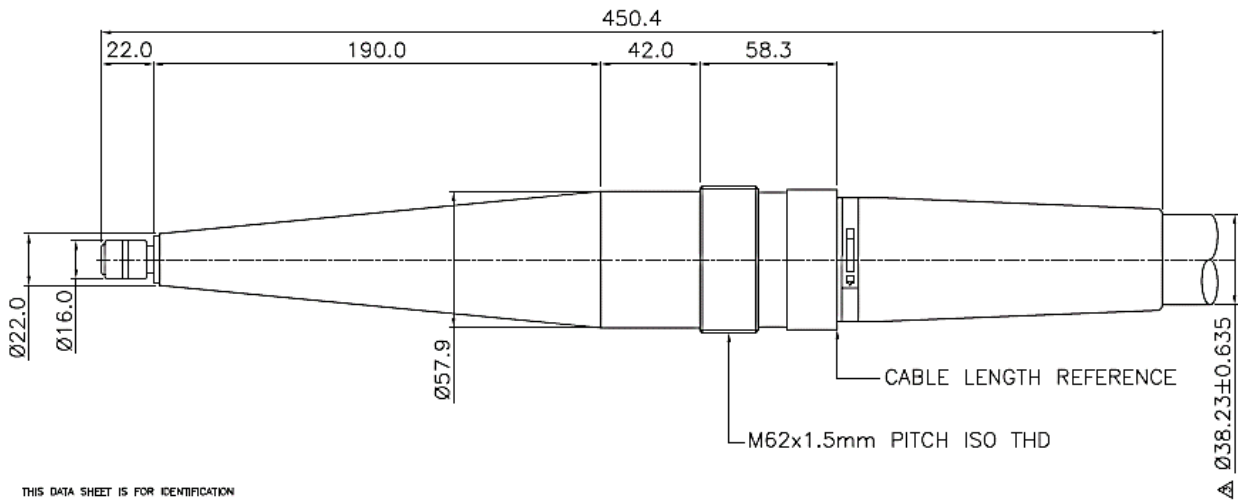
*R28 Sprung Flange*  
*Part Number – T22182*

## R30 TERMINATIONS



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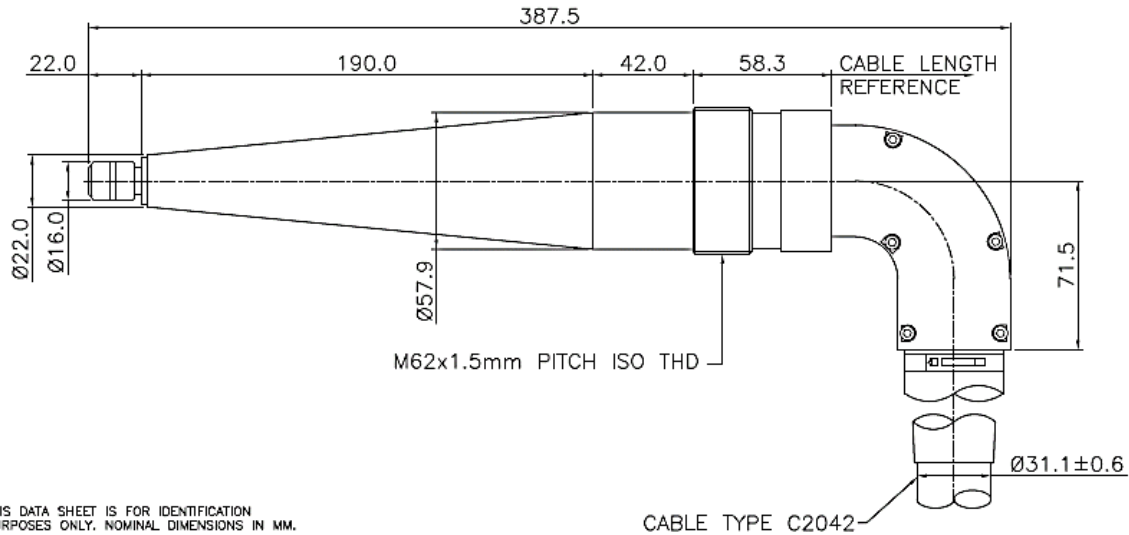
### R30 Seifert Straight on C2042 Compatible Flanges – T20172/A, T22185



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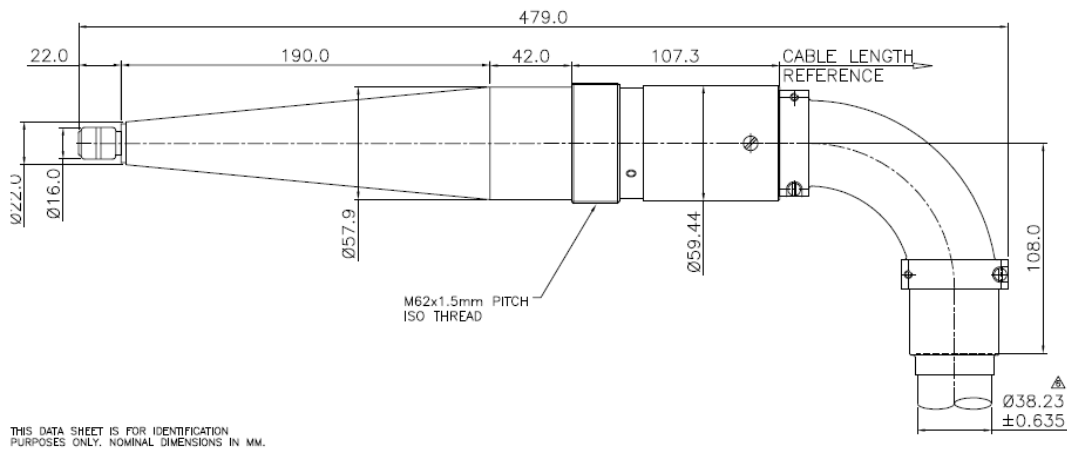
### R30 Seifert Straight on C2338 Compatible Flanges – T20172/A, T22185

## R30 TERMINATIONS



### R30 Seifert Right Angle on C2042

Compatible Flanges – T20172/A, T22185

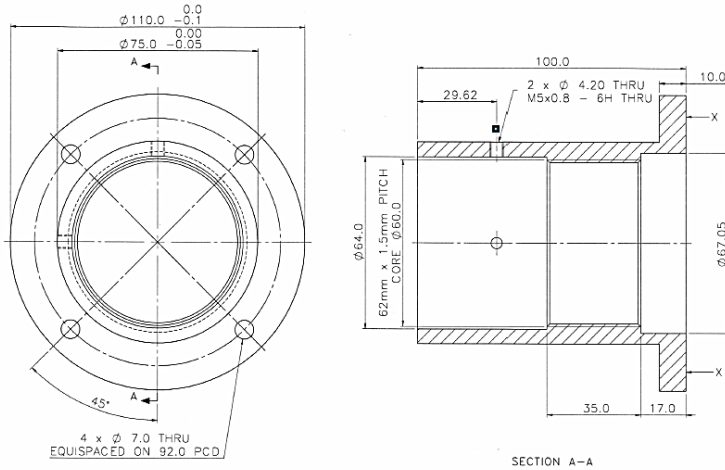


### R30 Seifert Right Angle on C2338

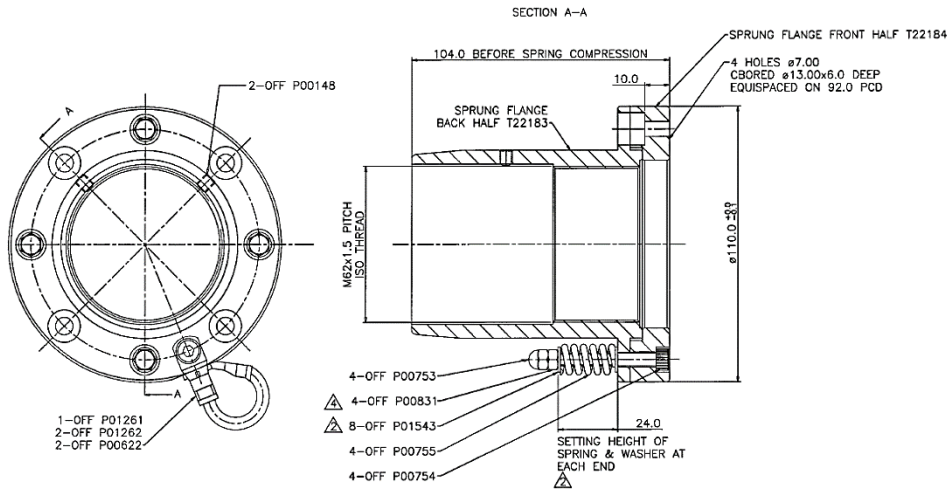
Compatible Flanges – T20172/A, T22185



## R30 FLANGES



R30 Flange  
Part Number – T20172/A



R30 Sprung Flange  
Part Number – T22185

## INSTALLATION INSTRUCTIONS

**Warning:** High voltage products should only be fitted by trained persons. Cables can retain electrical charge, discharge to earth before handling. Ensure that terminations are fully inserted into their socket before adjusting clamping sleeves and apply suitable insulating grease.

ADJUST CLAMPING FLANGE SO THAT DIMENSION 'X' IS 5mm WHEN THE TERMINATION HAS BEEN FULLY INSERTED INTO THE RECEPTACLE.

ADJUST ORIENTATION OF CLAMPING FLANGE TO MATCH HOLE POSITIONS IN RECEPTACLE.

NOTE:

ALWAYS ADJUST SO AS TO INCREASE DIMENSION 'X'.

ENSURE CLAMPING SCREWS ARE OF SUITABLE LENGTH TO ENGAGE IN THE RECEPTACLE BY 5mm BEFORE THE PRESSURE GAP 'X' IS TAKEN UP.

LOCK CLAMPING FLANGE BY TIGHTENING FLANGE GRUB SCREWS AGAINST FERRULE.

REMOVE TERMINATION AND GREASE TAPERED SECTION OF RUBBER TERMINATION WITH HIGH VOLTAGE GREASE.

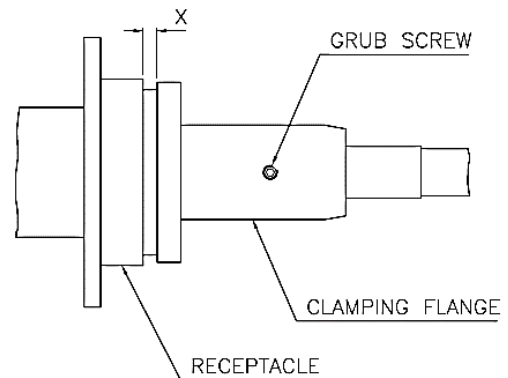
REPLACE IN RECEPTACLE AND TIGHTEN DOWN CLAMPING SCREWS EQUALLY.

RELEASE SCREWS AND CHECK 'X' IS 5mm.

IF NOT RE-ADJUST AS ABOVE.

CAUTION:

IT IS IMPORTANT TO CHECK DIMENSION 'X' AFTER APPROXIMATELY ONE WEEK. ADJUST AS ABOVE IF REQUIRED.



### R10 Installation Instructions

ADJUST CLAMPING FLANGE SO THAT DIMENSION 'X' IS 6mm WHEN THE TERMINATION HAS BEEN FULLY INSERTED INTO THE RECEPTACLE.

ADJUST ORIENTATION OF CLAMPING FLANGE TO MATCH HOLE POSITIONS IN RECEPTACLE.

NOTE:

ALWAYS ADJUST SO AS TO INCREASE DIMENSION 'X'.

ENSURE CLAMPING SCREWS ARE OF SUITABLE LENGTH TO ENGAGE IN THE RECEPTACLE BY 5mm BEFORE THE PRESSURE GAP 'X' IS TAKEN UP.

LOCK CLAMPING FLANGE BY TIGHTENING FLANGE GRUB SCREWS AGAINST FERRULE.

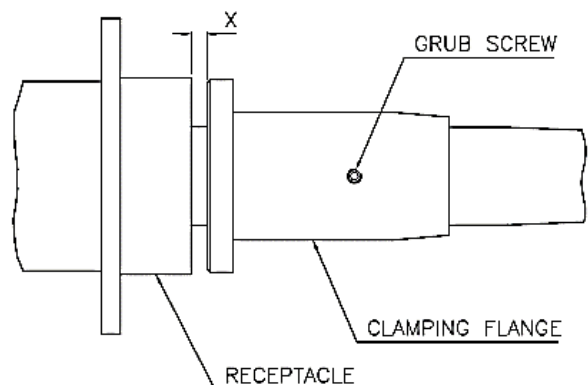
REMOVE TERMINATION AND GREASE TAPERED SECTION OF RUBBER TERMINATION WITH HIGH VOLTAGE GREASE.

REPLACE IN RECEPTACLE AND TIGHTEN DOWN CLAMPING SCREWS EQUALLY.

RELEASE SCREWS AND CHECK 'X' IS 6mm IF NOT RE-ADJUST AS ABOVE.

CAUTION:

IT IS IMPORTANT TO CHECK DIMENSION 'X' AFTER APPROX. 1 WEEK. ADJUST AS ABOVE IF REQUIRED.



### R24, R28 & R30 Installation Instructions

## INSTALLATION INSTRUCTIONS

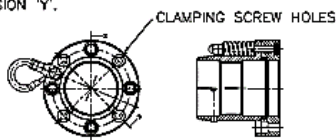
**Warning:** High voltage products should only be fitted by trained persons. Cables can retain electrical charge, discharge to earth before handling. Ensure that terminations are fully inserted into their socket before adjusting clamping sleeves and apply suitable insulating grease.

ADJUST BY ROTATING THE CLAMPING FLANGE SO THAT DIMENSION 'X' IS 9mm WHEN THE TERMINATION HAS BEEN FULLY INSERTED INTO THE RECEPTACLE AND IS AXIALLY IN LINE WITH THE RECEPTACLE. ENSURE THE CABLE IS SUPPORTED AT ALL TIMES BUT ESPECIALLY WHILE ADJUSTING THE FLANGE. ADJUST BY ROTATING THE ORIENTATION OF CLAMPING FLANGE TO ALIGN WITH THE MATING HOLE POSITIONS IN THE RECEPTACLE. NOTE: ALWAYS ADJUST SO AS TO INCREASE DIMENSION 'X'. LOCK CLAMPING FLANGE BY TIGHTENING THE FLANGE GRUB SCREWS (S) AGAINST THE FERRULE.

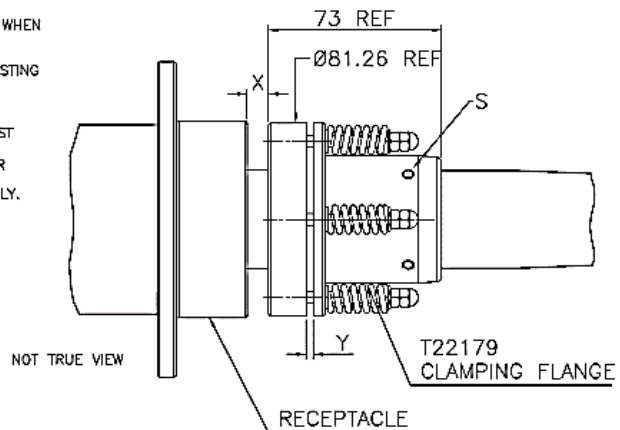
REMOVE THE TERMINATION AND GREASE THE TAPERED SECTION OF THE RUBBER TERMINATION WITH HIGH VOLTAGE GREASE. REPLACE IN RECEPTACLE AND TIGHTEN DOWN CLAMPING SCREWS 4 OFF EQUALLY.

AS THE FLANGE IS TIGHTENED DOWN GAP 'Y' WILL OPEN. CHECK GAP 'Y' IS NOT LESS THAN 3mm IF LESS THAN 3mm RE-ADJUST.

**CAUTION:** IT IS IMPORTANT TO CHECK DIMENSION 'Y' AFTER APPROX. 1 WEEK. INSPECT AND ADJUST AS ABOVE IF 'Y' IS LESS THAN 1mm. ENSURE CABLE IS AXIALLY IN LINE WITH THE RECEPTACLE WHEN MEASURING DIMENSION 'Y'.



ALWAYS REFER TO EQUIPMENT MANUFACTURES SERVICE MANUALS FOR SERVICE/INSPECTION INTERVALS



THREAD M4x1.5mm PITCH ISO  
4 HOLES Ø5.0 THROUGH EQUISPACED ON 65.98 PCD  
TO SUIT M5 CAP HEAD FIXINGS  
FOR FULL DETAILS SEE T22179

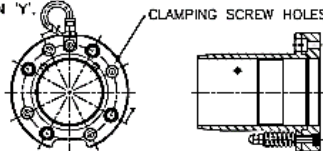
### R24 Flange Installation Instructions

ADJUST BY ROTATING THE CLAMPING FLANGE SO THAT DIMENSION 'X' IS 9mm WHEN THE TERMINATION HAS BEEN FULLY INSERTED INTO THE RECEPTACLE AND IS AXIALLY IN LINE WITH THE RECEPTACLE. ENSURE THE CABLE IS SUPPORTED AT ALL TIMES BUT ESPECIALLY WHILE ADJUSTING THE FLANGE. ADJUST BY ROTATING THE ORIENTATION OF CLAMPING FLANGE TO ALIGN WITH THE MATING HOLE POSITIONS IN THE RECEPTACLE. NOTE: ALWAYS ADJUST SO AS TO INCREASE DIMENSION 'X'. LOCK CLAMPING FLANGE BY TIGHTENING THE FLANGE GRUB SCREWS (S) AGAINST THE FERRULE.

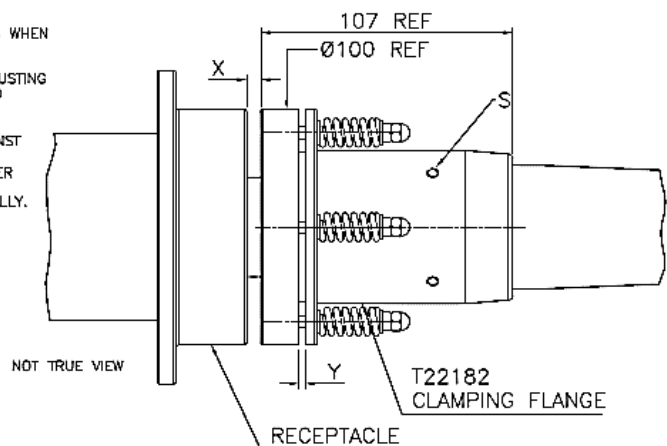
REMOVE THE TERMINATION AND GREASE THE TAPERED SECTION OF THE RUBBER TERMINATION WITH HIGH VOLTAGE GREASE. REPLACE IN RECEPTACLE AND TIGHTEN DOWN CLAMPING SCREWS 4 OFF EQUALLY.

AS THE FLANGE IS TIGHTENED DOWN GAP 'Y' WILL OPEN. CHECK GAP 'Y' IS NOT LESS THAN 3mm IF LESS THAN 3mm RE-ADJUST.

**CAUTION:** IT IS IMPORTANT TO CHECK DIMENSION 'Y' AFTER APPROX. 1 WEEK. INSPECT AND ADJUST AS ABOVE IF 'Y' IS LESS THAN 1mm. ENSURE CABLE IS AXIALLY IN LINE WITH THE RECEPTACLE WHEN MEASURING DIMENSION 'Y'.



ALWAYS REFER TO EQUIPMENT MANUFACTURES SERVICE MANUALS FOR SERVICE/INSPECTION INTERVALS



THREAD M5x1.5mm PITCH ISO  
4 HOLES Ø5.4 THROUGH EQUISPACED ON 80.00 PCD  
TO SUIT M5 CAP HEAD FIXINGS  
FOR FULL DETAILS SEE T22182

### R28 Flange Installation Instructions

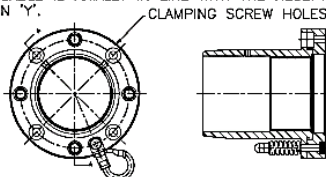
## INSTALLATION INSTRUCTIONS

**Warning:** High voltage products should only be fitted by trained persons. Cables can retain electrical charge, discharge to earth before handling. Ensure that terminations are fully inserted into their socket before adjusting clamping sleeves and apply suitable insulating grease.

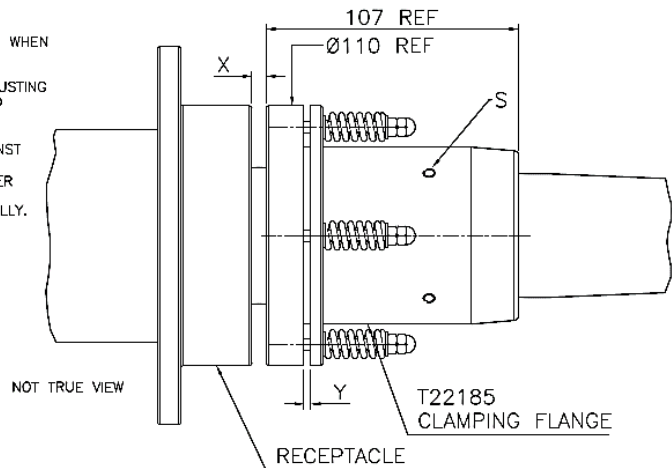
ADJUST BY ROTATING THE CLAMPING FLANGE SO THAT DIMENSION 'X' IS 9mm WHEN THE TERMINATION HAS BEEN FULLY INSERTED INTO THE RECEPTACLE AND IS AXIALLY IN LINE WITH THE RECEPTACLE. ENSURE THE CABLE IS SUPPORTED AT ALL TIMES BUT ESPECIALLY WHILE ADJUSTING THE FLANGE. ADJUST BY ROTATING THE ORIENTATION OF CLAMPING FLANGE TO ALIGN WITH THE MATING HOLE POSITIONS IN THE RECEPTACLE.  
NOTE: ALWAYS ADJUST SO AS TO INCREASE DIMENSION 'X'.  
LOCK CLAMPING FLANGE BY TIGHTENING THE FLANGE GRUB SCREWS (S) AGAINST THE FERRULE.  
REMOVE THE TERMINATION AND GREASE THE TAPERED SECTION OF THE RUBBER TERMINATION WITH HIGH VOLTAGE GREASE.  
REPLACE IN RECEPTACLE AND TIGHTEN DOWN CLAMPING SCREWS 4 OFF EQUALLY.

AS THE FLANGE IS TIGHTENED DOWN GAP 'Y' WILL OPEN.  
CHECK GAP 'Y' IS NOT LESS THAN 3mm IF LESS THAN 3mm RE-ADJUST.

CAUTION:  
IT IS IMPORTANT TO CHECK DIMENSION 'Y' AFTER APPROX. 1 WEEK.  
INSPECT AND ADJUST AS ABOVE IF 'Y' IS LESS THAN 1mm.  
ENSURE CABLE IS AXIALLY IN LINE WITH THE RECEPTACLE WHEN MEASURING DIMENSION 'Y'.



ALWAYS REFER TO EQUIPMENT MANUFACTURERS SERVICE MANUALS FOR SERVICE/INSPECTION INTERVALS

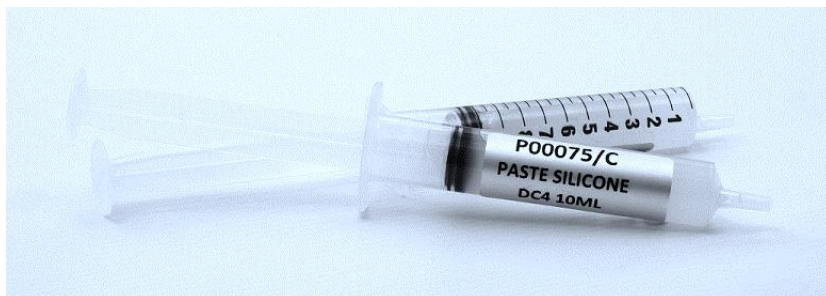


THREAD M62x1.5mm PITCH ISO  
4 HOLES Ø7.0 THROUGH EQUIPACED ON Ø2.00 PCD  
TO SUIT M6 CAP HEAD FIXINGS  
FOR FULL DETAILS SEE T22185

### R30 Flange Installation Instructions

# P00075/C

Installation Grease DC4



<b>Trade Name</b>	Dow Corning 4 Electrical Insulating Compound	
<b>Appearance</b>	Translucent White Inorganic Grease	
<b>CAS#</b>	<b>Weight (%)</b>	<b>Component Name</b>
68037-74-1	70.0 – 90.0	Dimethyl, methyl silicone resin
7631-86-9	7.0 – 13.0	Silica, amorphous
70131-67-8	5.0 – 10.0	Dimethyl siloxane, hydroxyl-terminated
<b>Evaporation</b>	30 hours/200°C max = 2.0%	
<b>Service Temperature</b>	-55°C to +200°C	
<b>Relative Density</b>	1.0g/ml at 25°C	
<b>Dielectric Strength</b>	1.27mm gap – 1.0kV/ml	
<b>Permittivity</b>	3.1 at 100Hz    3.1 at 100kHz	
<b>Dissipation Factor</b>	0.0025 at 100Hz    0.0025 at 100kHz	
<b>Volume Resistivity</b>	0.10 x 10 <sup>15</sup> Ohm/cm at 23°C	
<b>Arc Resistance</b>	120 seconds	

## OVERVIEW

Dow Corning 4 (DC4) Electrical Insulating compound is a lubricating, grease like material used as a moisture proof seal for electrical assemblies and terminals. Used for cable connectors, battery terminals, switches and various other plastic on metal combinations.

## FEATURES

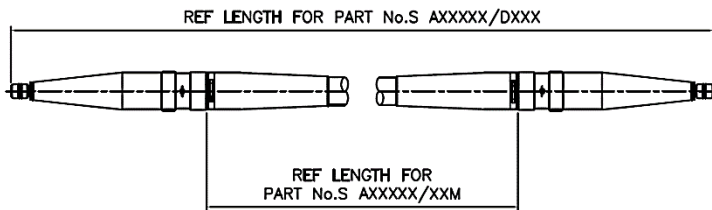
- ❖ High dielectric strength
- ❖ Low volatility
- ❖ Moisture resistant
- ❖ Good thermal oxidation and chemical stability
- ❖ Retains its grease like consistency from -55°C to +200°C
- ❖ Odourless
- ❖ Highly water repellent
- ❖ Adheres readily to dry metals, ceramics, rubber, plastics and insulating resins

## HOW TO USE

DC4 compound can be applied by hand, dispensing equipment, brushing or wiping. A thinner consistency can be achieved by dispersing in solvents such as xylene, mineral spirits and methyl ethyl ketone. Compound can then be applied by brushing, dipping or spraying. DC4 should not be applied to any surface which will be painted or finished.

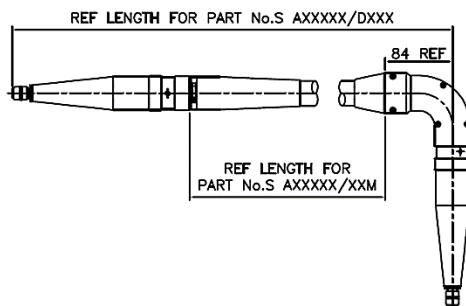
*Please refer to the manufacturer’s product safety data sheet for full product safety instructions.*

## CABLE ASSEMBLY MEASUREMENT



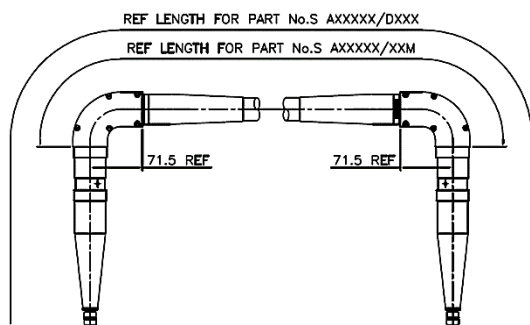
CABLE LENGTH TOLERANCE  $\pm 100\text{mm}$

*Straight to Straight Terminations*



CABLE LENGTH TOLERANCE  $\pm 100\text{mm}$

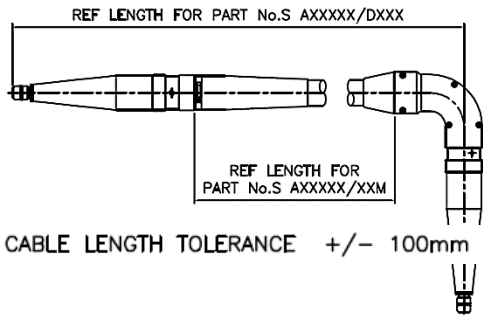
*Straight to Right Angle Terminations*



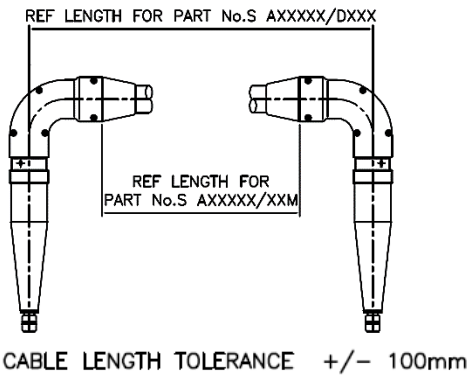
CABLE LENGTH TOLERANCE  $\pm 100\text{mm}$

*Right Angle to Right Angle Terminations*

## CABLE ASSEMBLY MEASUREMENT



*Straight to Short Right Angle Terminations*



*Short Right Angle to Short Right Angle Terminations*





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**HEICO**