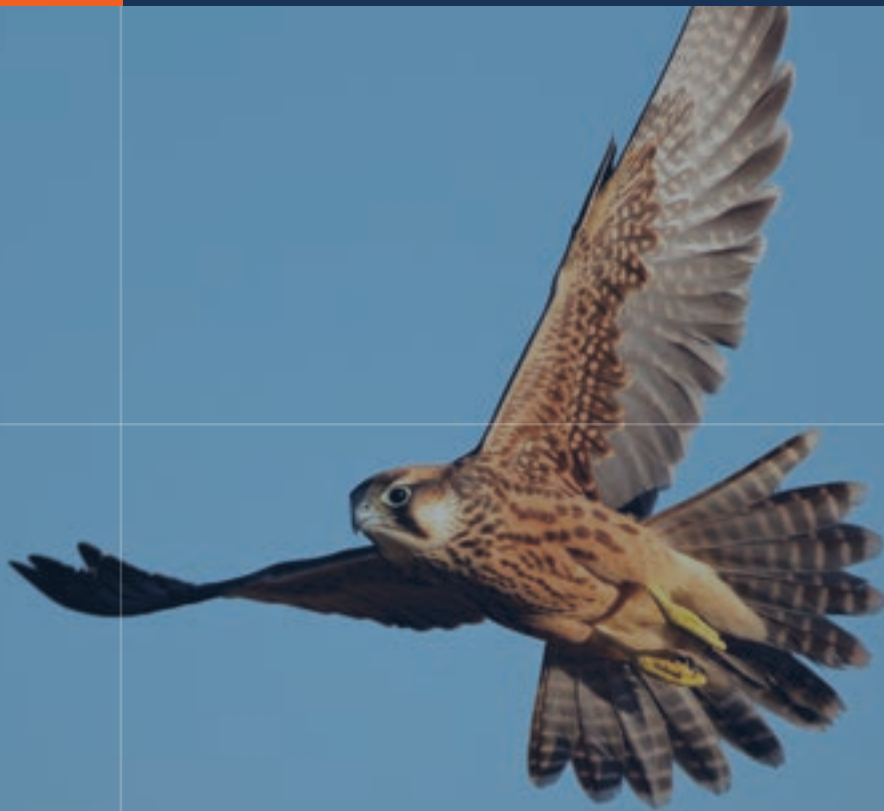






Kaddas Birdguard™ Line Protector Series

Protects against phase-to-phase avian interaction. Fast assembly and installation with rubber gloves or with a Hot Stick. They are easily field modified for varying conductor sizes and coverage length requirements. Fits a range of insulator types, sizes and accommodates tie wire and armor rod.

**John Kaddas' first idea for Birdguard™ started in Early 90's
when bald Eagle populations were declining.**

First Birdguard™ Design Installed in Pinedale, WY 1993

**Birdguard™ line protectors in service domestically
and in over 15 countries.**





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WHY KADDAS

FEATURES	BENEFITS
PROPRIETARY BIRDCUARD MATERIAL	IMPENETRABLE, FIRE RETARDANT, AND UV RESISTANT
IEEE 1656 COMPLIANT	PROVEN AND TESTED IN THE FIELD BY THE BEST
WOMEN OWNED BUSINESS	INVEST IN DIVERSITY AND SUPPLY CHAIN FLEXIBILITY
INNOVATIVE ENGINEERING	SIGNIFICANTLY REDUCES FAILURES IN THE FIELD
100% US COMPONENTS AND MANUFACTURING	QUALITY PRODUCT AND PREDICTABLE ON TIME DELIVERY
INDUSTRY EXPERTISE	WE FORESEE WILDLIFE POWER OUTAGES AND FAILURES
EASE OF INSTALLATION	LOWER LABOR COSTS AND QUICK TO IMPLEMENT
ISO9001:2015 CERTIFIED ORGANIZATION	MEETS INTERNATIONAL QUALITY STANDARDS; AUDITED ANNUALLY



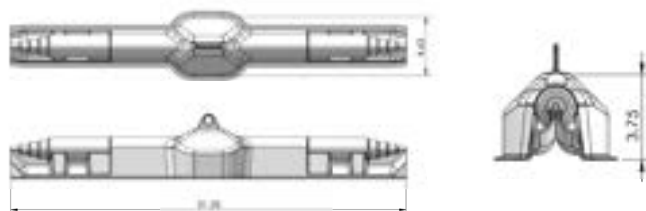
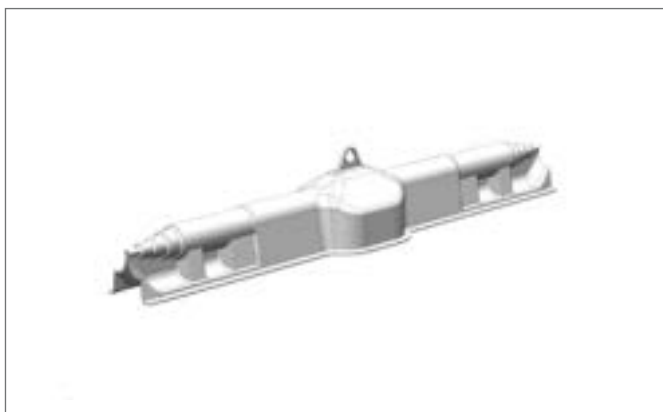
MATERIAL TESTED INFORMATION

DESCRIPTION	ASTM TEST	SPECIFICATIONS
ELECTRICAL DIELECTRIC STRENGTH (TESTED IN OIL)	D-149-09	PASS > 49KV
ELECTRICAL DIELECTRIC STRENGTH (TESTED IN AIR)	D-149-09	PASS > 72KV
COMPARATIVE TRACKING INDEX	D-3638-12	PASS
TENSILE STRENGTH (BEFORE UV EXPOSURE)	D-638-10	6570 PSI
TENSILE STRENGTH (AFTER UV EXPOSURE)	D-638-10	6480 PSI
TENSILE IMPACT (BEFORE UV EXPOSURE)	D-1822-13	78.4 FT-LBS/IN SQ
TENSILE IMPACT (AFTER UV EXPOSURE)	D-1822-13	69.3 FT-LBS/IN SQ
FLAMMABILITY (UL94)	D-3801	PASS V-0
UV EXPOSURE	D-4329	PASSED, 1500 HOURS

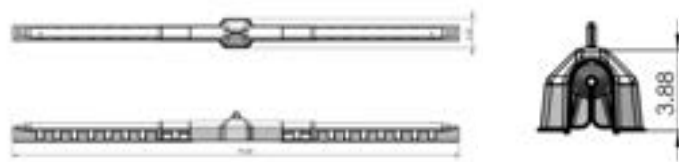


SINGLE INSULATORS

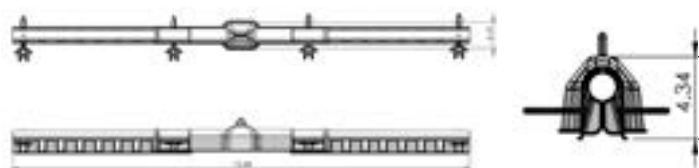
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1162-03	LINE PROTECTOR - GRADUATED ENDS - 1 PC	32 (813)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



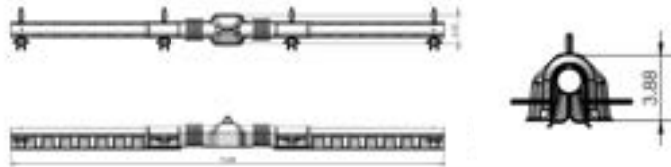
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1165-23	LINE PROTECTOR - GRADUATED ENDS - 3 PC	79 (2006)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



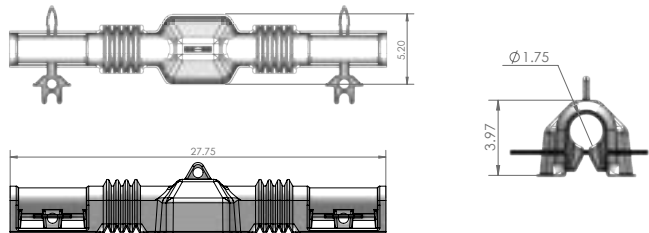
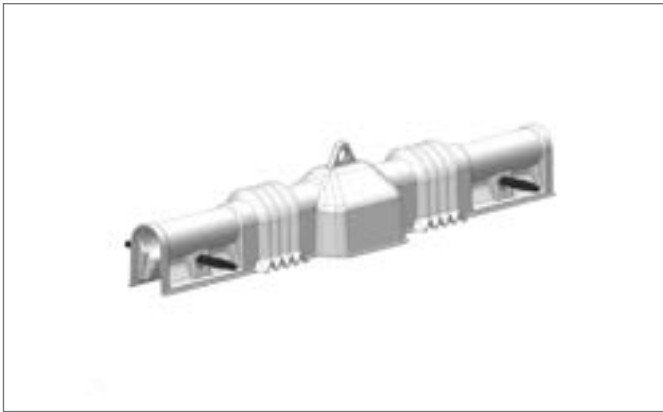
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1165-33	LINE PROTECTOR - WITH PINS - 3 PC	73 (1854)	55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



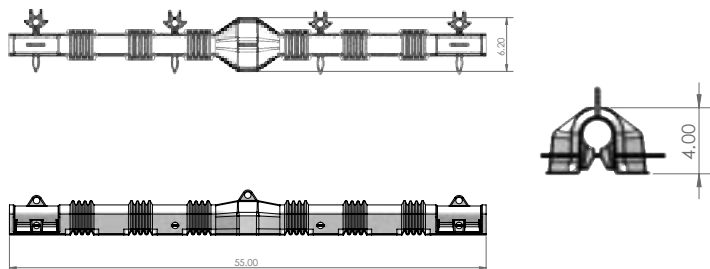
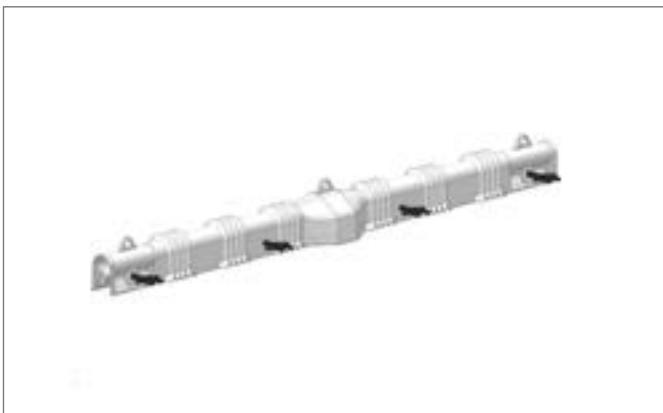
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1165-43	LINE PROTECTOR - FLEXIBLE - WITH PINS - 3 PC	72 (1829)	55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



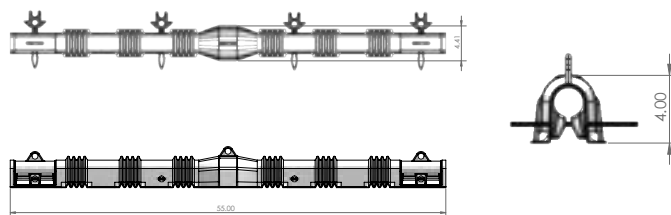
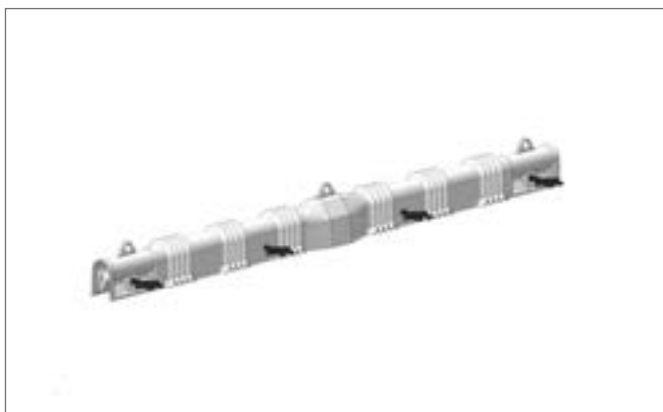
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1164-05	LINE PROTECTOR - FLIXIBLE - WITH PINS - 1PC	27.75 (704)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



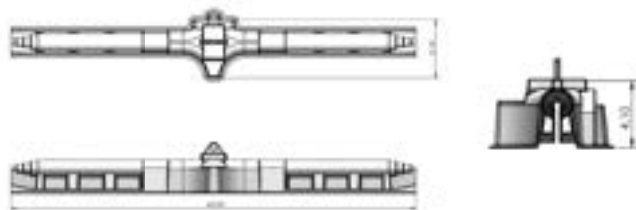
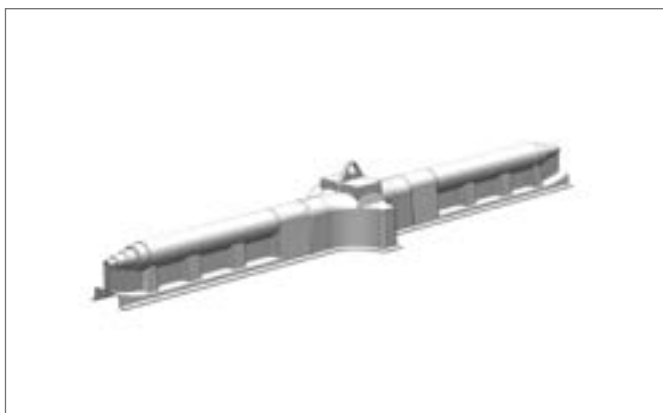
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1276-03	LINE PROTECTOR - FLEXIBLE - WITH PINS - 1 PC - LARGE	55 (1397)	CERAMIC PIN TYPE INSULATOR, 9" DIA



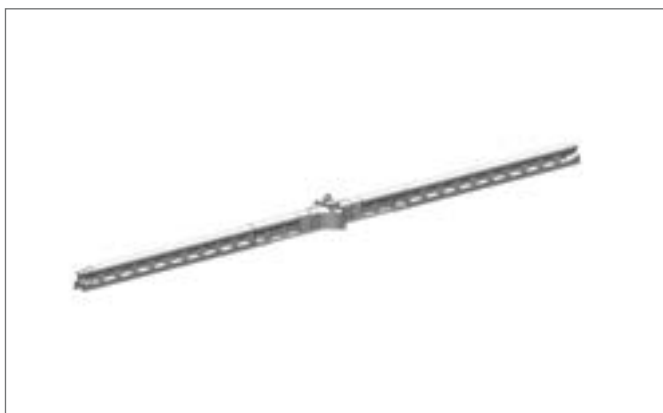
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1279-03	LINE PROTECTOR - FLEXIBLE - WITH PINS - 1 PC	55 (1397)	COMPOSITE PIN TYPE INSULATOR, 7 5/8" DIA



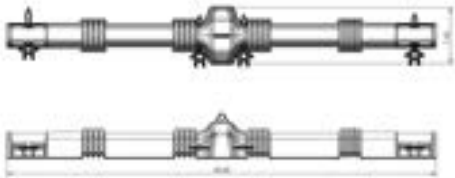
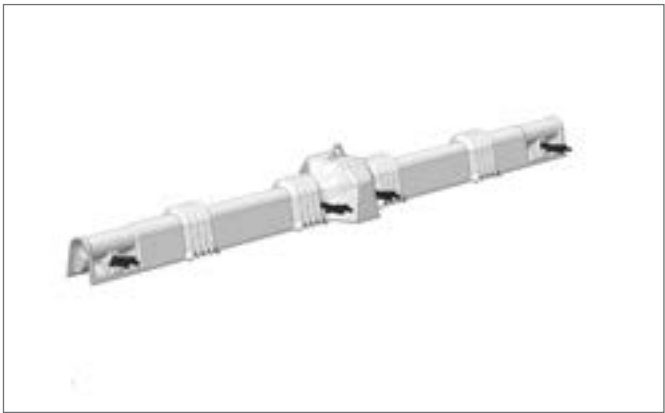
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1168	LINE PROTECTOR - VERTICAL CLAMP TOP - GRADUATED ENDS - 1 PC	43 (1092)	57-11 THRU 57-16



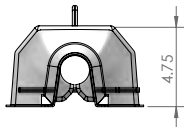
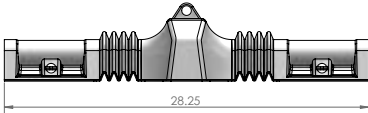
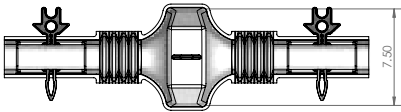
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1169	LINE PROTECTOR - VERTICAL CLAMP TOP - GRADUATED ENDS - 3 PC	118 (2997)	TRUNNION CLAMP



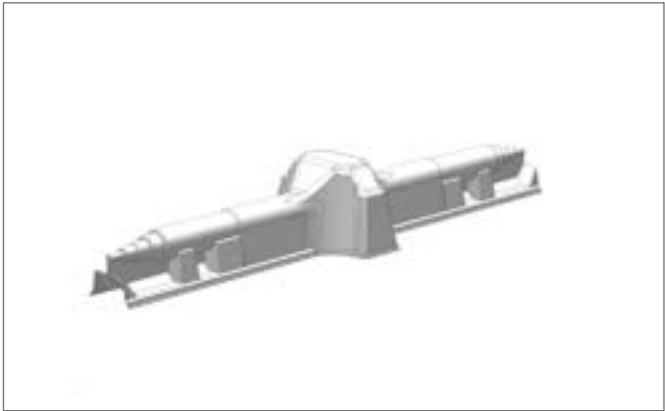
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1255-01	LINE PROTECTOR - VISE TOP - FLEXIBLE - 1 PC 60" L	60 (1524)	CLAMP/VISE TOP INSULATORS



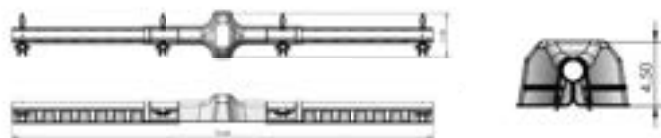
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1255-03	LINE PROTECTOR - VISE TOP - FLEXIBLE - 1PC 28" L	28.25 (717)	CLAMP/VISE TOP INSULATORS



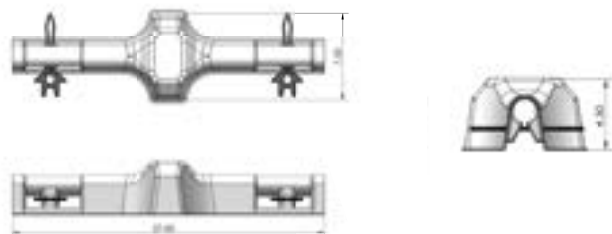
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1198	LINE PROTECTOR - CLAMP/VISE TOP - GRADUATED ENDS - 1 PC	31.6 (803)	CLAMP/VISE TOP INSULATORS



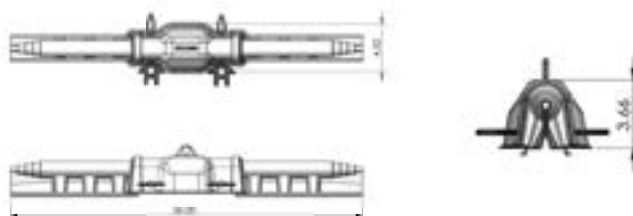
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1198-01	LINE PROTECTOR - CLAMP/VISE TOP - WITH PINS - 3PC	73 (1854)	CLAMP/VISE TOP INSULATORS



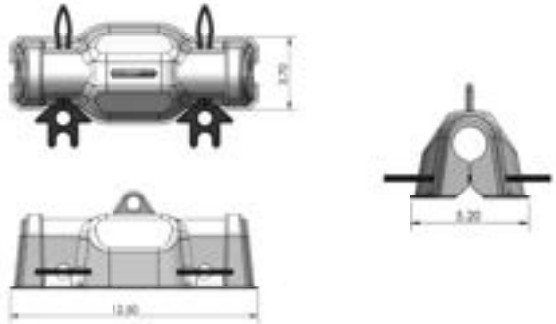
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1198-04	LINE PROTECTOR - CLAMP /VISE TOP - WITH PINS - 1 PC	27 (685)	CLAMP/VISE TOP INSULATORS



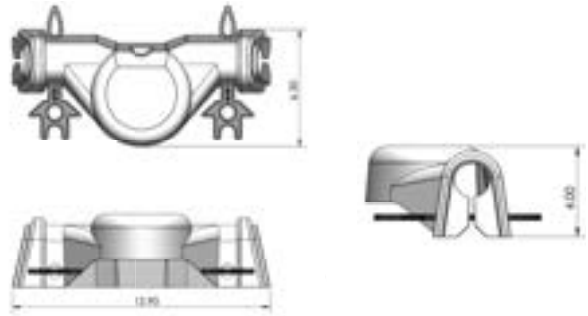
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1220	LINE PROTECTOR - WITH PINS - 3 PC	36 (914)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



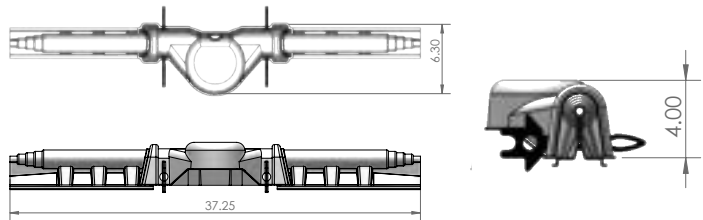
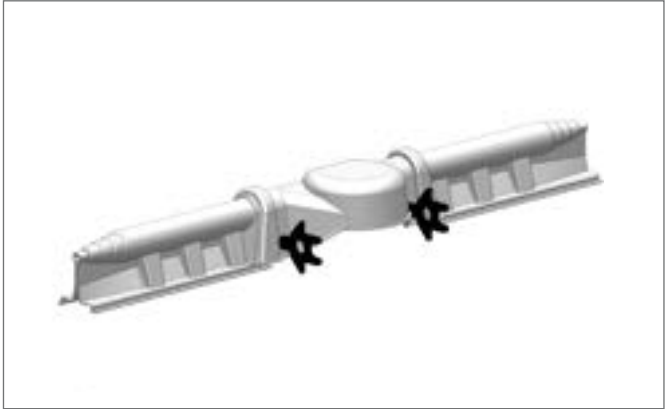
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1220-03	LINE PROTECTOR - WITH PINS - 1 PC	12 (305)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



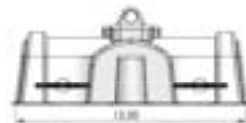
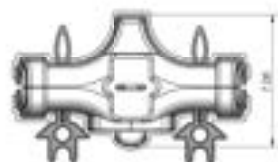
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1222	LINE PROTECTOR - SIDE TIE - WITH PINS - 1 PC	14 (356)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



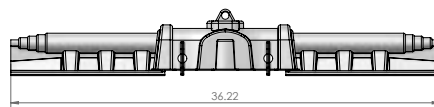
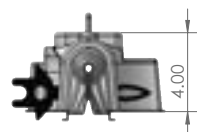
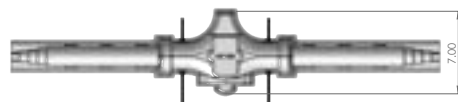
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1222-03	LINE PROTECTOR - SIDE TIE - WITH PINS - 3 PC	37 (939)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



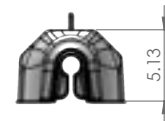
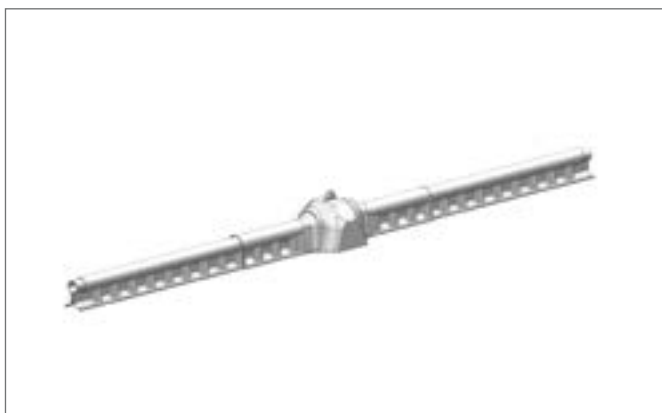
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1 2 2 3	LINE PROTECTOR - VERTICAL CLAMP TOP - WITH PINS - 1 PC	12 (305)	ANSI 57-11 THRU 57-16



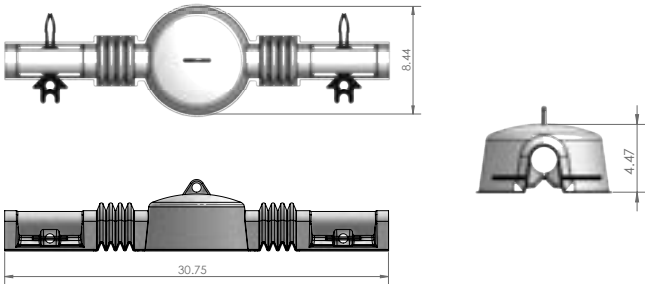
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1 2 2 3 - 0 3	LINE PROTECTOR - VERTICAL CLAMP TOP - WITH PINS - 3 PC	36 (914)	ANSI 57-11 THRU 57-16



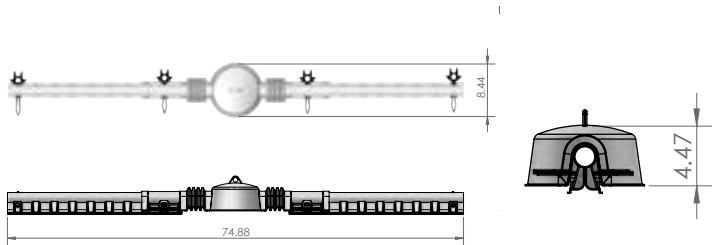
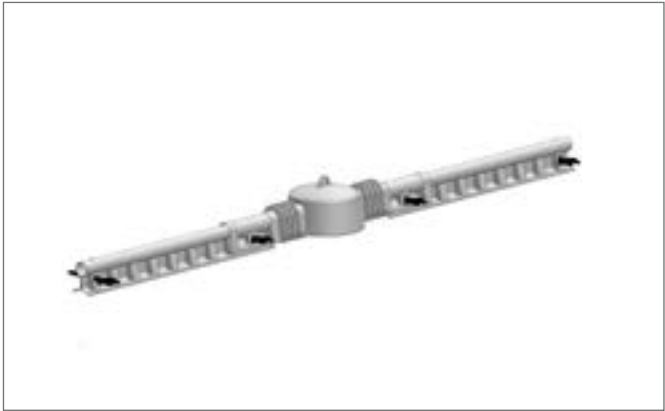
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1 1 5 7	LINE PROTECTOR - VERTICAL CLAMP TOP - LARGE CONDUCTOR 3PC	86.5 (2197)	2" DIA USED FOR ARMOR ROD OVER CONDUCTOR



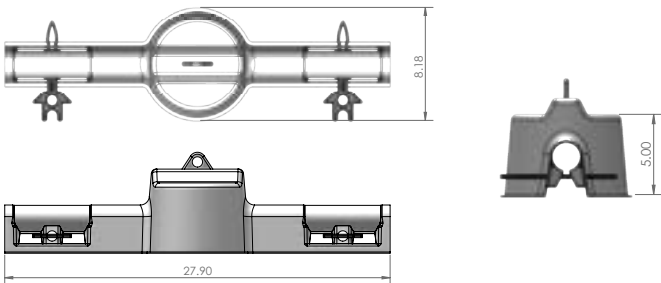
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1303-01	LINE PROTECTOR - FLEXIBLE - WITH PINS - 1 PC	30.75 (781)	69KV LINE POST INSULATOR



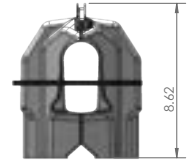
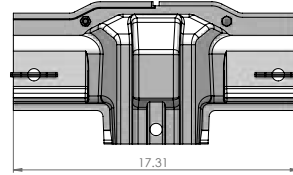
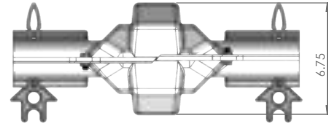
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1303-03	LINE PROTECTOR - FLEXIBLE - WITH PINS - 3 PC	75 (1905)	69KV LINE POST INSULATOR



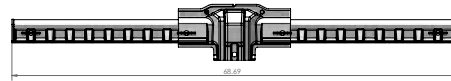
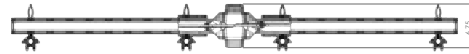
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1274-01	LINE SENSOR COVER	28 (711)	LINDSEY GEN 2 AND HUBBELL LINE POST SENSORS



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1288-01	LINE COVER - UNIVERSAL - CLAMP POST INSULATOR	17 (432)	UNIVERSAL CLAMP AND TRUNNION STYLE POST INSULATORS



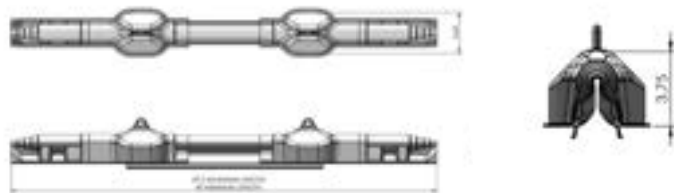
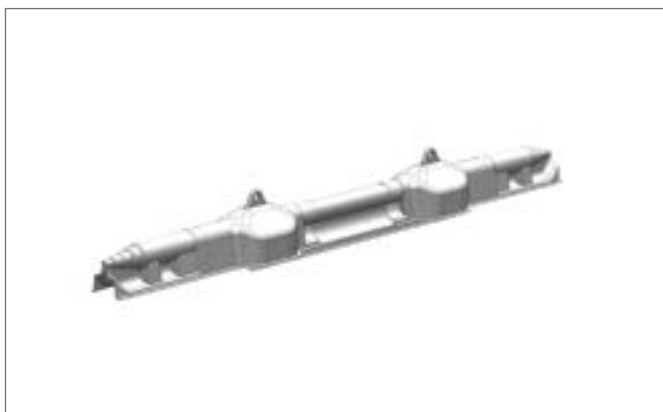
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1288-03	LINE COVER - UNIVERSAL - CLAMP POST INSULATOR - WITH ARMS	68.7 (1745)	UNIVERSAL CLAMP AND TRUNNION STYLE POST INSULATORS



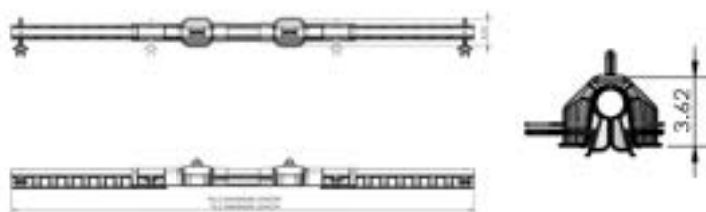


DOUBLE INSULATORS

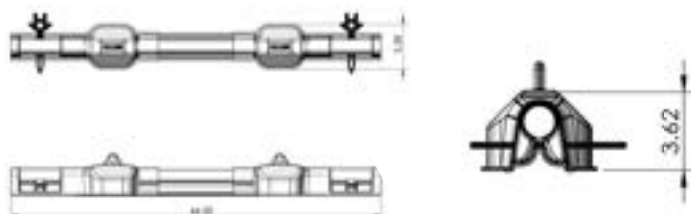
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1186-01	LINE PROTECTOR - ADJUSTABLE - DBL CTR TIE - GRADUATED ENDS - 3PC	59 (1499)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



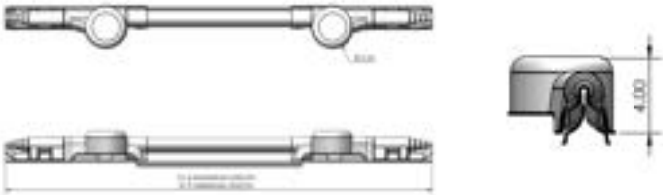
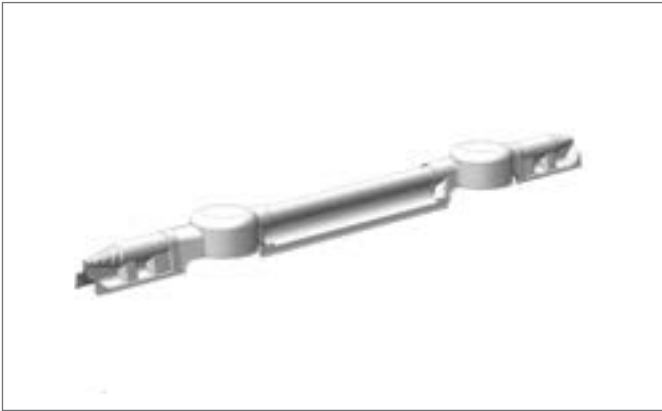
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1186-03	LINE PROTECTOR - ADJUSTABLE - DBL CTR TIE - WITH PINS - 5PC	96.5 (2451)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



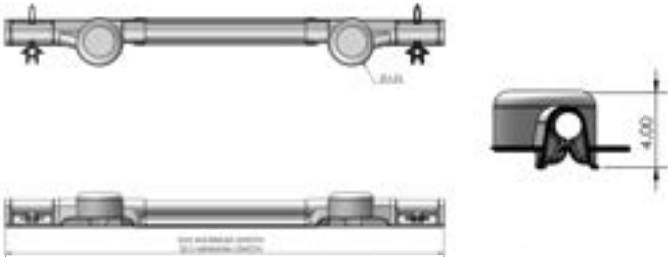
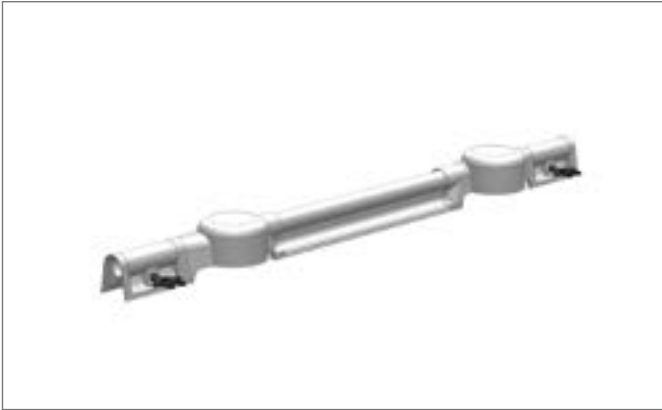
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1186-05	LINE PROTECTOR - ADJUSTABLE - DBL CTR TIE - WITH PINS - 3PC	44.5 (1130)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-3



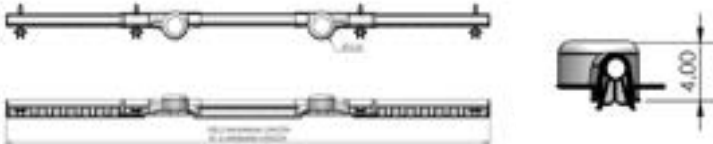
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1187-01	LINE PROTECTOR - ADJUSTABLE - DBL SIDE TIE - GRADUATED ENDS - 3PC	57 (1448)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-5



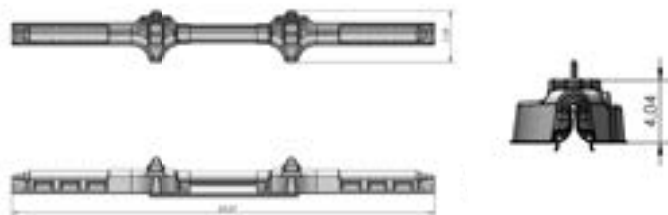
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1187-03	LINE PROTECTOR - ADJUSTABLE - DBL SIDE TIE - WITH PINS - 3PC	53 (1346)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-5



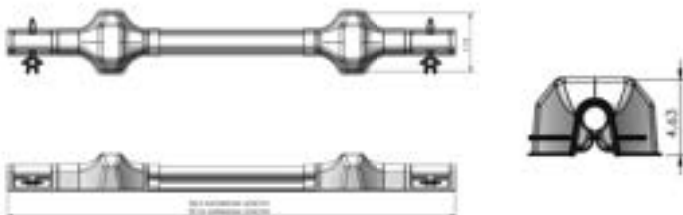
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1187-05	LINE PROTECTOR - ADJUSTABLE - DBL SIDE TIE - WITH PINS - 5PC	100 (2540)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-5



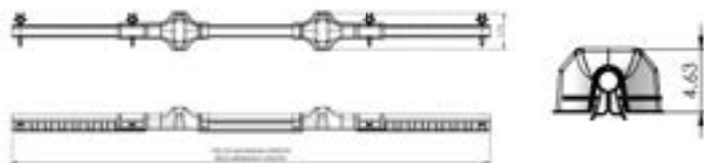
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1168-01	LINE PROTECTOR - ADJUSTABLE - DBL VERTICAL CLAMP TOP - GRADUATED ENDS - 3PC	73 (1854)	ANSI 57-11 THRU 57-16



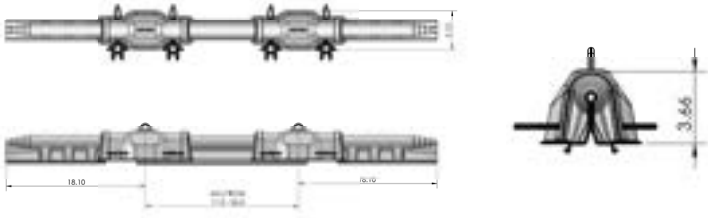
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1198-03	LINE PROTECTOR - ADJUSTABLE - DBL CLAMP/WISE TOP - WITH PINS - 3 PC	50 (1270)	CLAMP/WISE TOP INSULATORS



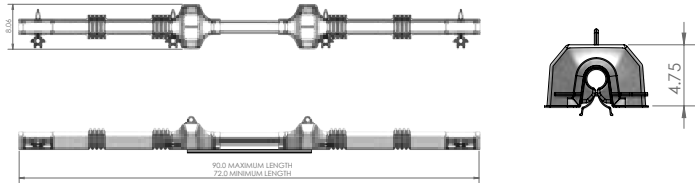
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1198-05	LINE PROTECTOR - ADJUSTABLE - DBL CLAMP/WISE TOP - WITH PINS - 5 PC	102 (2591)	CLAMP/WISE TOP INSULATORS



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1 2 2 1	LINE PROTECTOR - ADJUSTABLE - DBL CTR TIE - WITH PINS - 5 PC	62 (1575)	ANSI 55-3 THRU 55-7, 56-1 THRU 55-4, 57-1 THRU 57-5



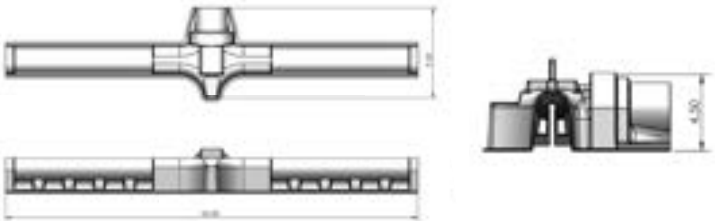
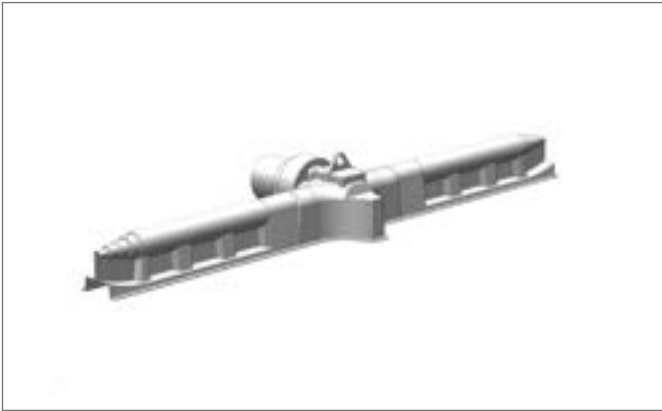
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1 3 0 2 - 0 1	LINE PROTECTOR - ADJUSTABLE - DBL - VISE TOP - WITH PINS - 3 PC	90 (2286)	CLAMP/VISE TOP INSULATORS



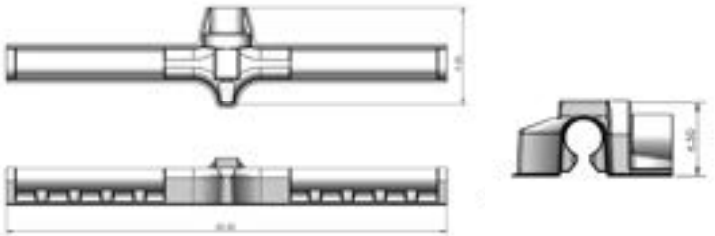
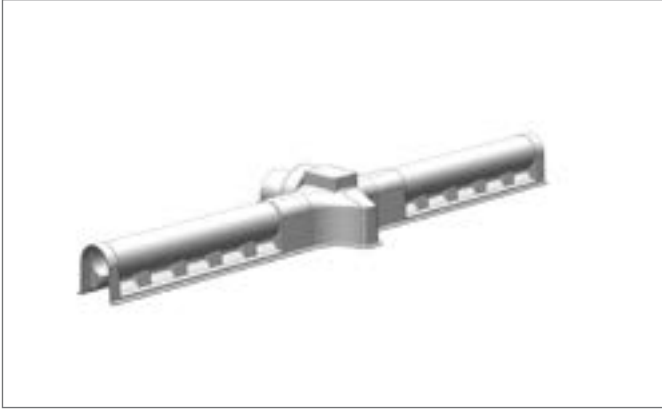
HORIZONTAL INSULATORS



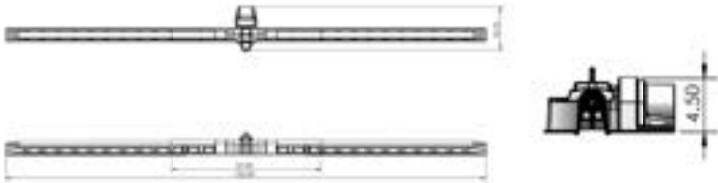
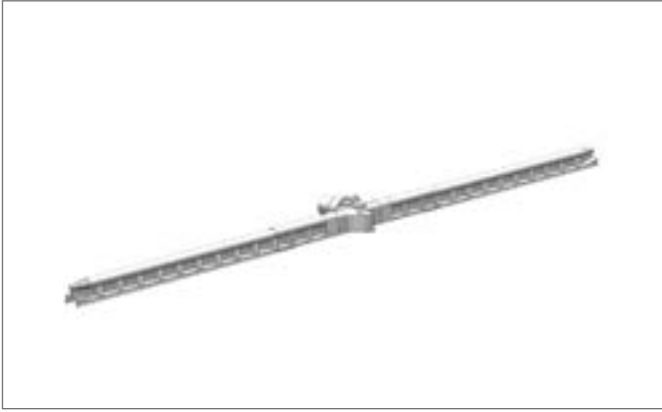
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1166	LINE PROTECTOR - HORIZONTAL - GRADUATED ENDS - 1PC	43 (1092)	ANSI 57-21 THRU 57-36



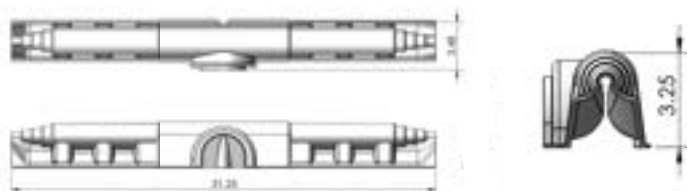
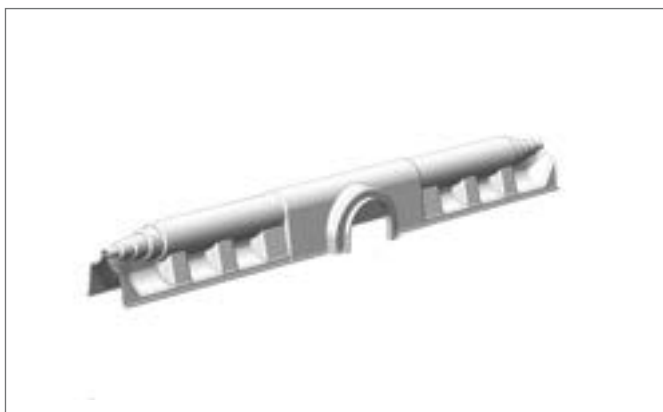
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1166-01	LINE PROTECTOR - HORIZONTAL - LARGE CONDUCTOR - 1PC	42.5 (1079)	USE FOR LARGER CONDUCTORS UP TO 2.25"



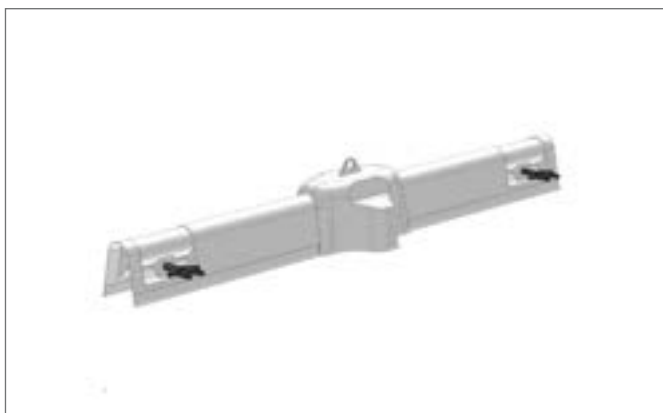
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE 1167	LINE PROTECTOR - HORIZONTAL - GRADUATED ENDS - 3PC	120 (3048)	ANSI 57-21 THRU 57-36



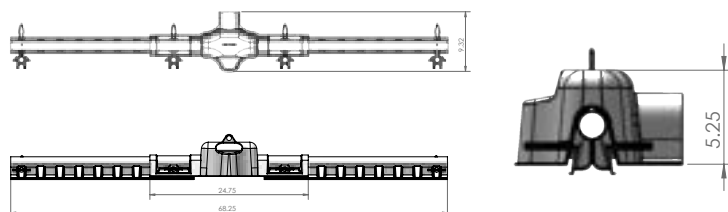
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1208	LINE PROTECTOR - HORIZONTAL- SIDE TIE - GRADUATED ENDS - 1PC	31 (787)	ANSI 55-3 THRU 55-7, 56-1



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1280-01	LINE PROTECTOR - HORIZONTAL FOR CGS - WITH PINS - 1PC	43.5 (1105)	CGS STYLE CONNECTORS



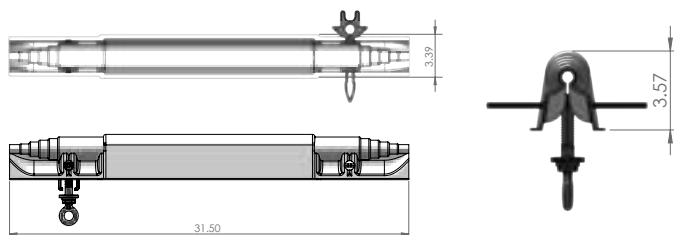
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1280-07	LINE PROTECTOR - HORIZONTAL FOR CGS - WITH PINS - 3PC	68.25 (1733)	CGS STYLE CONNECTORS



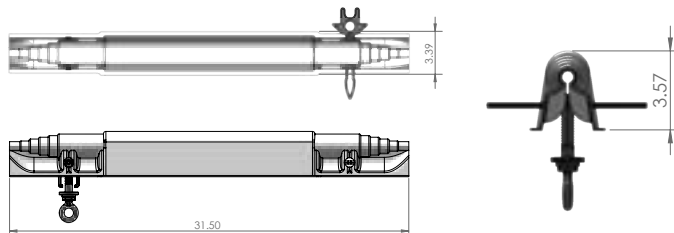


CONDUCTOR COVERS

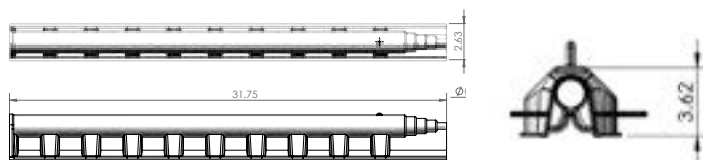
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1293-01	COVERED CONDUCTOR REPAIR/ SPLICE COVER WITH 1 CLAMP	25(635)	COVERED CONDUCTOR .55" OD TO 1.75" OD
KE1293-03	COVERED CONDUCTOR REPAIR/ SPLICE COVER WITH 1 CLAMP	32(813)	COVERED CONDUCTOR .55" OD TO 1.75" OD



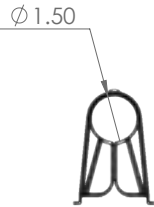
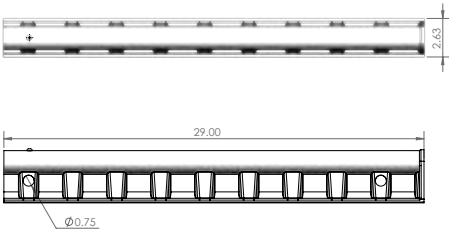
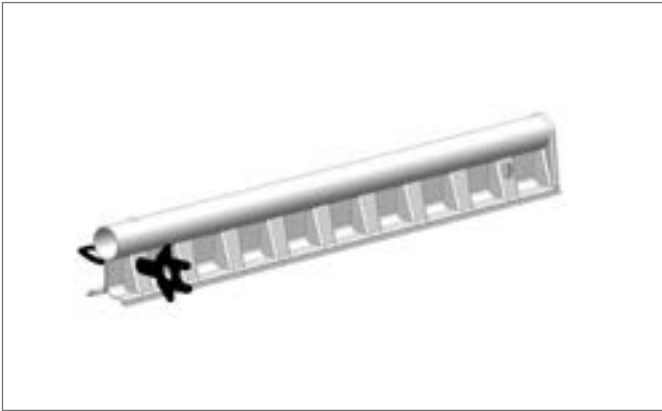
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1293-05	COVERED CONDUCTOR REPAIR/ SPLICE COVER WITH 2 CLAMPS	25(635)	COVERED CONDUCTOR .55" OD TO 1.75" OD
KE1293-07	COVERED CONDUCTOR REPAIR/ SPLICE COVER WITH 2 CLAMPS	32(813)	COVERED CONDUCTOR .55" OD TO 1.75" OD



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1163-13	EXTENSION ARMS WITH GRADUATED ENDS	31.75 (806)	FITS CONDUCTOR SIZES 0.38" TO 1.50"



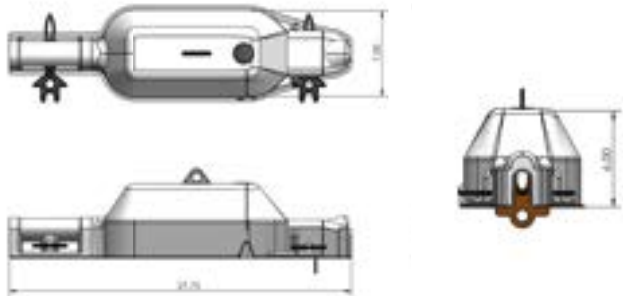
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1163-14	EXTENSION ARMS WITH PINS	29 (736)	FITS ALL CONDUCTOR SIZES UP TO 1.50"



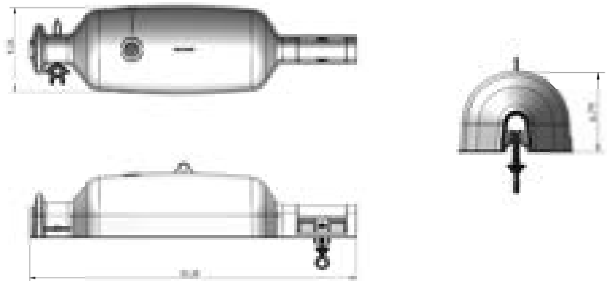


DEADENDS

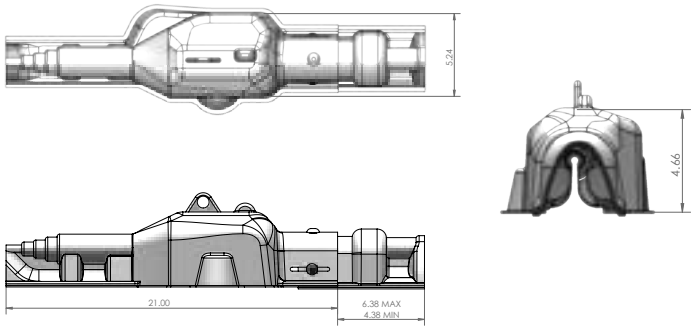
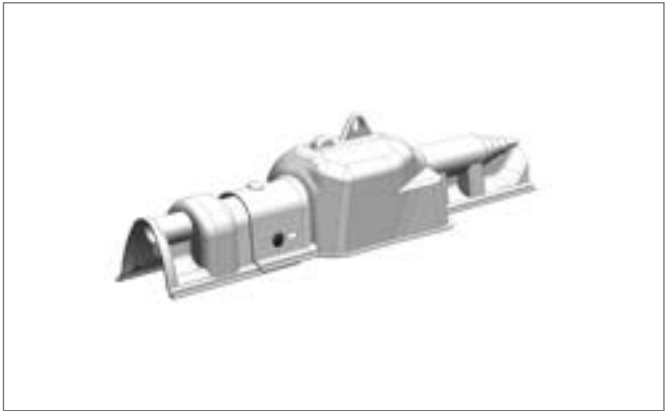
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1182-09	DEADEND COVER - HOT STICKABLE - WITH PINS AND ANTI- ROTATION CLIP	27.75 (705)	FITS ALL CONDUCTOR SIZES UP TO 1.50"
KE1182-11	DEADEND COVER - HOT STICKABLE - WITH PINS AND ANTI- ROTATION CLAMP	27.75 (705)	FITS ALL CONDUCTOR SIZES UP TO 1.50"



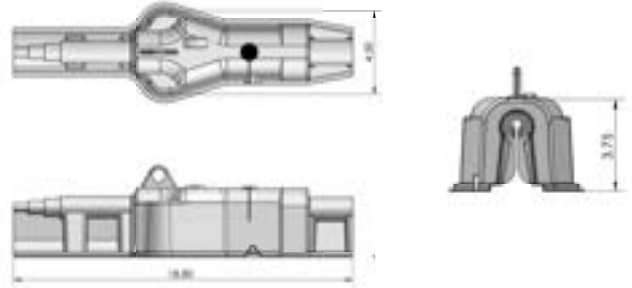
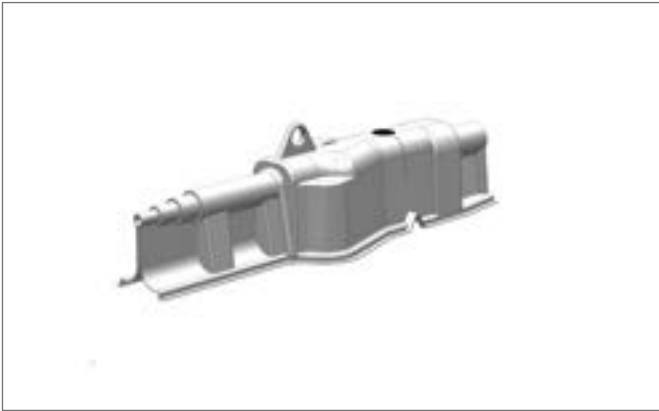
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1287-01	DEADEND COVER - UNIVERSAL - IN-LINE - XL	33.75 (857)	FITS ALL CONDUCTOR SIZES UP TO 1.50"



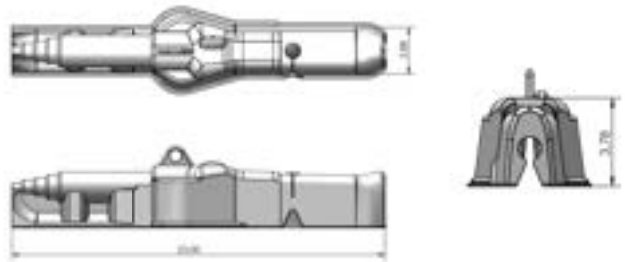
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1178	DEADEND COVER - HOT STICKABLE - ADJUSTABLE - GRADUATED ENDS	27 (695)	FITS ALL CONDUCTOR SIZES UP TO 1.50"



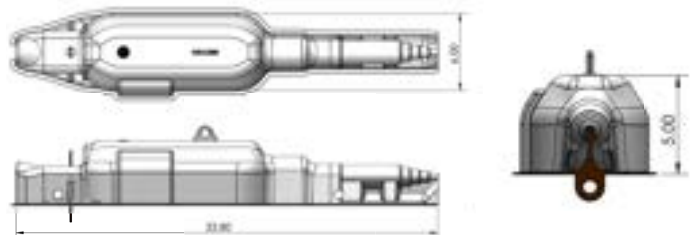
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1113	DEADEND COVER - HOT STICKABLE - GRADUATED ENDS	18.8 (478)	#4 - 4/0 CONDUCTOR SIZE



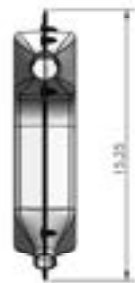
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1113-01	DEADEND COVER - HOT STICKABLE - GRADUATED ENDS	23 (584)	1/0 - 795 CONDUCTOR SIZE



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1204	DEADEND COVER - HOT STICKABLE - GRADUATED ENDS	33.75 (857)	FITS ALL CONDUCTOR SIZES UP TO 1.50"



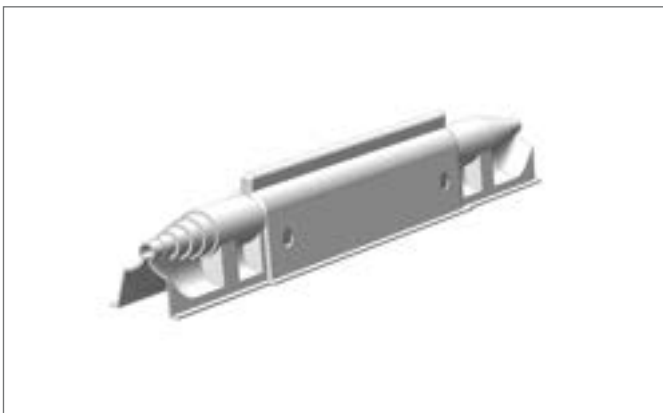
PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1270-01	DEADEND COVER - QUADRANT - LARGE	19.7 (500)	QUADRANT BOLTED DEADEND CLAMPS



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1270-03	DEADEND COVER - QUADRANT - SMALL	12.3 (312)	QUADRANT BOLTED DEADEND CLAMPS



PART #	DESCRIPTION	INCHES (MM)	SPECS
KE1267-01	DEADEND COVER - EXTENSION - GRADUATED ENDS	31.5 (800)	FITS ALL CONDUCTOR SIZES UP TO 1.50"





FIELD TOOLS

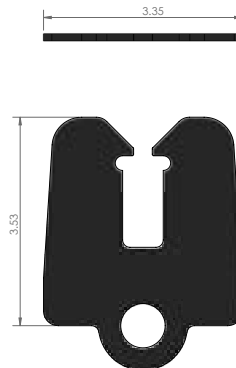
PART #	DESCRIPTION	CATEGORY	SPECS
KE1160	INSTALLATION TOOL	INSTALLATION TOOL	USED TO INSTALL LINE COVERS AND DEADEND COVERS



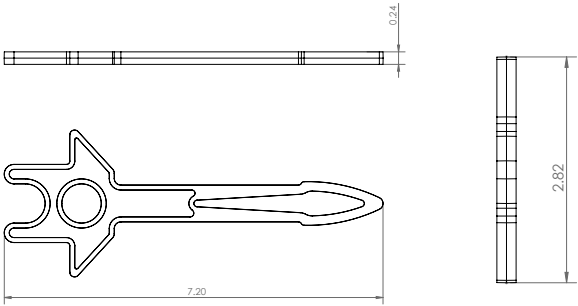
PART #	DESCRIPTION	CATEGORY	SPECS
KE1275-01	ANTI-ROTATION CLAMP	ANTI ROTATION CLIP	USED ON LINE COVERS AND DEADEND COVERS TO PREVENT ROTATING



PART #	DESCRIPTION	CATEGORY	SPECS
KE1182-07	ANTI-ROTATION PIN	PIN	USED ON KE1182-09 DEADEND COVER TO PREVENT ROTATING



PART #	DESCRIPTION	CATEGORY	SPECS
K P 1 1 8 3 - 0 9	LOCKING PIN	PIN	LOCKING PINS PROVIDE SECURE LONG TERM INSTALLATION



BIRDHOSE

SILICONE RUBBER SPLIT LINE HOSE FOR DISTRIBUTION LINES AND SUBSTATION CABLES AND BUSES
DIELECTRIC RATING OF 20KV PHASE TO GROUND OR UP TO 35 KV SYSTEMS

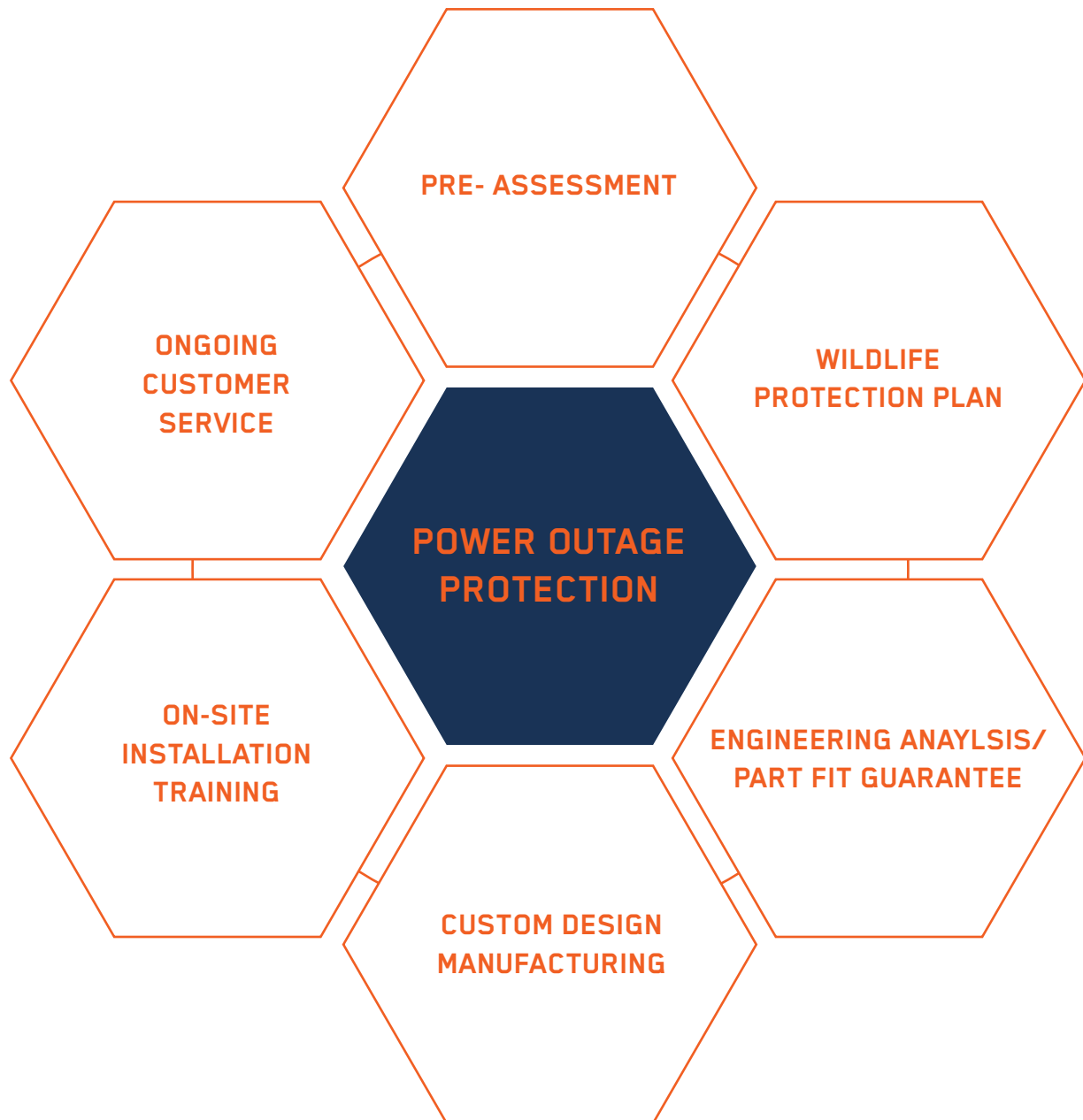
PART #	DESCRIPTION	COLOR	CONDUCTOR SIZE (AWG OR KCMIL)	CONDUCTOR OD RANGE
IH025M-050	BIRDHOSE .25" OUTSIDE DIAMETER	GR	6	0.198 (.5cm)
IH050M-050	BIRDHOSE .50" OUTSIDE DIAMETER	GR	4, 2, 1/0, 2/0	0.25 - 0.447 (.6cm - 1.1cm)
IH075M-050	BIRDHOSE .75" OUTSIDE DIAMETER	GR	3/0, 4/0, 266.8-336.4	0.502 - 0.741 (1.3cm - 1.9cm)
IH100M-050	BIRDHOSE 1" OUTSIDE DIAMETER	GR	397.5, 447, 556.5, 605, 636	0.743 - 1.00 (2.0cm - 2.5cm)
IH125M-050	BIRDHOSE 1.25" OUTSIDE DIAMETER	GR	666.6, 715.5, 795, 900, 954	1.00 - 1.196 (2.5cm - 3.0cm)
IH150M-050	BIRDHOSE 1.50" OUTSIDE DIAMETER	GR	1033.5, 1113, 1192.5, 1272, 1351.5, 1431	1.25 - 1.427 (3.2cm - 3.6cm)
IH175M-050	BIRDHOSE 1.75" OUTSIDE DIAMETER	GR	1590, 1780, 2156, 2167	1.50 - 1.735 (3.8cm - 4.4cm)
IH200M-025	BIRDHOSE 2.0" OUTSIDE DIAMETER	GR	2312, 2515	1.76 - 1.980 (4.5cm - 5.0cm)

IH025M-050 - IH175M-050 - AVAILABLE IN 50 FT LENGTHS/INCREMENTS (15.2M)

IH200M-050 - AVAILABLE IN 25 FT LENGTHS/INCREMENTS (7.6M)



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#2

KE 1182-03
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