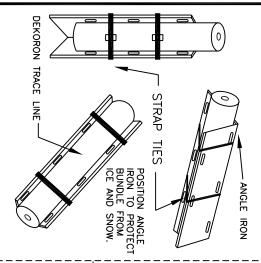


USING ANGLE IRON FOR SUPPORT



ANGLE IRON AND CHANNEL IRON CAN BE USED FOR SUPPORT. USE 2" (50mm) ANGLE IRON FOR BUNDLES WITH 1.4" (36mm) OD OR LESS. BUNDLES. CHANNEL IRON SHOULD BE SIZED SO THAT MINIMUM SPACING BETWEEN MULTIPLE BUNDLES IS MAINTAINED. STRAP TIES SHOULD 3" (75mm) ANGLE IRON FOR LARGER THE BUNDLE JACKET

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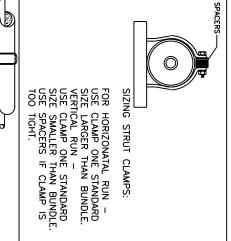
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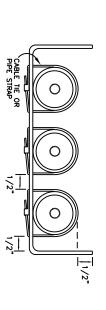
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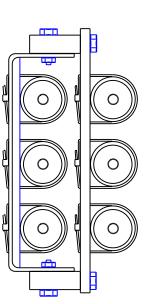




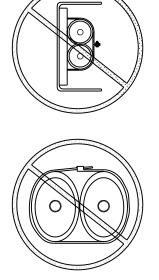
CABLE TRAY INSTALLING MULTIPLE BUNDLES \equiv



BUNDLES OPERATING ABOVE 400°F (204°C) INCREASED SPACING IS RECOMMENDED ON



EXTENSION TO CABLE TRAY FOR ADDED BUNDLES

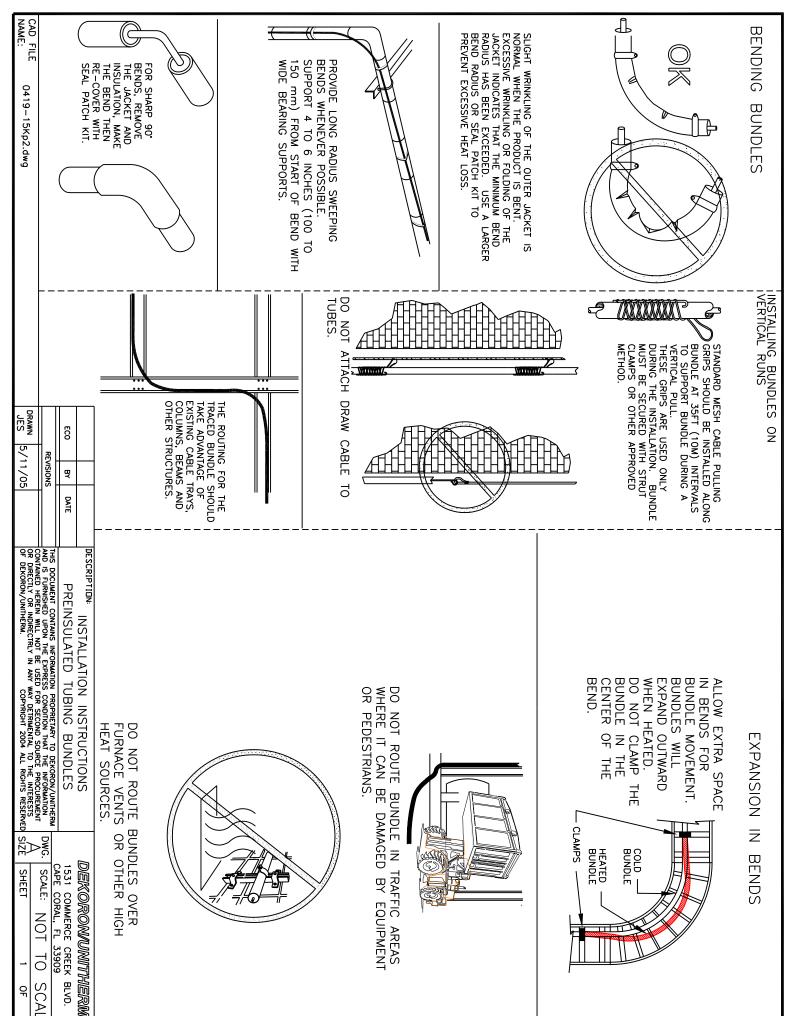


MORE THAT 1/8" BUNDLE JACKET SHOULD NOT BE COMPRESSED NOTE: IF USING CABLE TIES TO SECURE BUNDLE TO CABLE TRAY, DO NOT OVERTIGHTEN (3mm)

CONTAINED HEREIN WILL NOT BE USED FOR SECOND SOURCE PROCUREMEN OR DIRECTLY OR NUDRECTRY IN ANY WAY DETRIMENTAL TO THE INTERESTS'S OF DEKORON/UNITHERM, INC	HIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO DEKORON/UNITHEI AND IS FURNISHED UPON THE EXPRESS CONDITION THAT THE INFORMATION	PREINSULATED TUBING BUNDLES	DESCRIPTION: INSTALLATION INSTRUCTIONS

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GENERAL BUNDLE INFORMATION

INSTALLATION TEMPERATURE

BUNDLES MUST STABILIZE AT OR ABOVE THE TEMPERATURE LISTED BELOW BEFORE THEY ARE INSTALLED.

BELOW THIS TEMPERATURE MAY DAMAGE THE OUTER JACKET ATTEMPTING DE-REELING AND INSTALLATION OF BUNDLES

-45°F (-43°C)	FR-THERMOPLASTIC URETHANE
-50°F (-45°C)	FR-THERMOPLASIC ELASTOMER
-58°F (-50°C)	FR-POLYETHYLENE
-25°F (-32°C)	LOW TEMP FR-PVC
+15°F (-10°C)	FR-PVC
MIN INSTALL TEMP	JACKET MATERIAL

MINIMUM BENDING RADIUS

THE MINIMUM BENDING RADIUS IS DEPENDENT UPON THE OUTER JACKET MATERIAL. THE FOLLOWING TABLE SHOWS THE "MBR" FOR STANDARD BUNDLES. CONTACT UNITHERM FOR MBR ON HIGH-TEMP OR SPECIAL BUNDLES.

JACKET MATERIAL	MIN BENDING RADIUS
FR-PVC	6 X OD
LOW TEMP FR-PVC	6 X OD
FR-POLYETHYLENE	13 X OD
FR-THERMOPLASIC ELASTOMER	8 x OD
FR-THERMOPLASTIC URETHANE	5 X OD

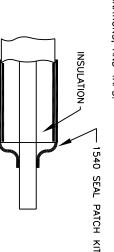
BUNDLE SUPPORTS

POWER CABLES.	W/O CABLES	W/MULTIPLE POWER CABLES
 MAXIMUM DISTANCE BETWEEN	6 FT	4 FT
HORIZONTAL SUPPORTS	(1.8M)	(1.2M)
MAXIMUM DISTANCE BETWEEN	15 FT	10 FT
VERTICAL SUPPORTS	(4.6M)	(3 M)

SEAL PATCH KIT

THE SEAL PATCH KIT CAN BE USED TO SEAL SPLICES, BUNDLE

TERMINATIONS, AND TAPS



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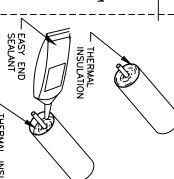
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INSTALLATION SHOULD BE PERFORMED ONLY BY SKILLED PERSONNEL OR BY PERSONNEL TRAINED IN THE PROPER PROCEDURES.

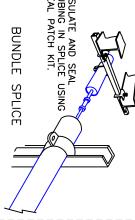
SEALING END OF BUNDLES OTHER COMPONENTS. FROM DAMAGING THE TUBING, HEATER AND PREVENT MOISTURE AND CORROSIVE ATMOSPHERES BUNDLES MUST BE SEALED AT EACH END TO



THERMAL INSULATION

SEALED BUNDLE

DEKORON/JUNITHERM EASY END SEALANT CAN BE USED TO QUICKLY SEAL MOST HEAT TRACED BUNDLES, HEAT SHRINK BOOT SEALS AND SEAL PATCH KITS ARE ALSO AVAILABLE. CONTACT UNITHERM FOR INFORMATION.



INSULATE AND SEAL TUBING IN SPLICE USING SEAL PATCH KIT.

DESCRIPTION

PREINSULATED TUBING BUNDLES

PROVIDE LONG, SWEEPING BENDS WHERE POSSIBLE.

ALL EXPOSED INSULATION RTV END SEALANT.

SEAL FITTINGS AND SPLICES WITH A SEAL PATCH

STRIP JACKET TO MAKE TIGHT 90 BENDS-USE A UNION ELBOW WHERE TIGHT BENDS ARE NECESSARY AND SEAL INSULATION.

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USE A MANDREL TO ASSURE CONSTANT RADIUS BENDS WHERE POSSIBLE.

8

SLOPE FOR CONDENSATE, INCH PER FOOT RUN.

CHECK THAT ALL ELECTRICAL CONNECTIONS ARE TIGHT AND SEALED.

CHECK THAT ALL CONNECTION BOX COVERS HAVE GASKETS AND ARE FASTENED TIGHTLY.

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SECURE END KITS WHEN USING TEFLON TUBE TRACE PRODUCTS TO REDUCE STRAIN ON THE FITTINGS.

8

Don'ts

DO NOT EXCEED MINIMUM BEND RADIUS.

DO NOT EXCEED RECOMMENDED SUPPORT CENTERS.

DO NOT

OVERTIGHTEN SUPPORT CLAMPS-JACKET SHOULD NOT BE PINCHED.

DO NOT TIE MULTIPLE RUNS TOGETHER TO FORM ONE BUNDLE—PROPER SPACING(1/2" MINIMUM) IS REQUIRED FOR HEAT DISSIPATION.

DO NOT SEVERELY CRIMP JACKET AS THIS MAY AFFECT INSULATION PROPERTIES, SOME SLIGHT CRIMPING CAN BE EXPECTED WITH HAND-FORMED BENDS.

DO NOT REMOVE EXCESSIVE AMOUNTS OF JACKET AND INSULATION AT

DO NOT ALLOW THE HEATING ELEMENT TO BE IN CONTACT WITH THE SENSOR

DO NOT ROUTE ELECTRIC TRACE BUNDLES WHERE THE AMBIENT WILL BE ABOVE 110 • F

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