



INCORPORATED 60532 u.s.a

SPECIFICATION TERMINATION WIRE

APPLICABLE DRAWINGS: 0.

SERIES A-71694 AND THIS SPECIFICATION APPLIES TO A-71690 / OF INSULATION DISPLACEMENT CONNECTORS,

2.0

INSURE THE PROPER TERMINATION AND PERFORMANCE OF INSULATION DISPLACEMENT CONNECTORS. SCOPE: THIS SPECIFICATION IS DESIGNED TO OF THE A-71690 AND A-71694 SERIES

GENERAL: 3.0

DESIGNED THE .1654/(4.20) CENTER INSULATION DISPLACEMENT CONNECTOR SYSTEM IS TO INTERCONNECT DISCRETE WIRE AS OUTLINED IN THIS SPECIFICATION,

CONDUCTOR REQUIREMENTS: 4.0

4.1 CONDUCTOR SIZE IDENTIFICATION:

| CONDUCTOR SIZE | CONDUCTOR STYLE | HOUSING ID COLOR (SEE FIG. 4) | TERMINAL ID HOLE POSITION (SEE FIG.8; SHT.5) |
|-------------------|------------------------------------|-------------------------------------|--|
| I8 AWG | STRANDED WITH TOPCOAT,FUSED, SOLID | RED | POSITION 1 |
| 20 AWG | STRANDED WITH TOPCOAT,FUSED, SOLID | BLUE | POSITION 2 |
| 22 AWG | STRANDED WITH TOPCOAT,FUSED, SOLID | GREEN | POSITION 3 |
| 24 AWG | STRANDED WITH TOPCOAT,FUSED, SOLID | BLACK | POSITION 4 |

STYLE: 1007, 1061 RECOMMENDED UL

INSULATION REQUIREMENTS: 4.2

INSULATION DIAMETER: .090 MAX

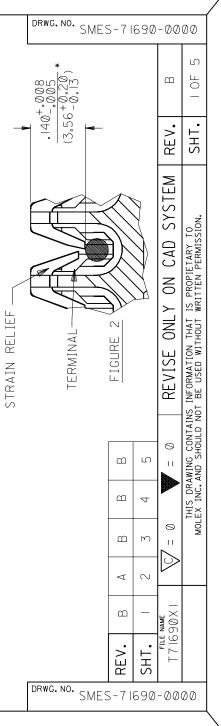
SCALI ⋖ SHORE HH INSULATION HARDNESS: 85 MAX ON

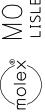
TERMINATION REQUIREMENTS: 5.0

5.1 CABLE INSERTION DEPTH:

THE HOUSING CABLE SHOULD BE INSERTED TO DEPTH OF .140/(3.56)* FROM THE TOP OF THE HOU THE TOP OF THE WIRE (SEE FIGURE 2). WIRE MUST BE LOCATED BELOW THE BOTTOM EAGLES. THE CABLE 0 9F

ASSEMBLIES TERMINATION DEPTH FOR THE 24 AWG WIRES IN THE FOLLOWING BE .138±.005/(3,51±0.13); 71690-6008 AND 71694-2402.

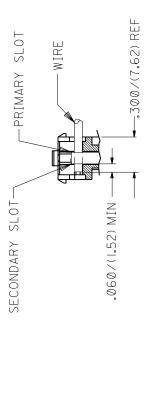




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SPECIFICATION TERMINATION

WIRE CUT OFF
IN THE FEED-TO VERSION THE WIRE MUST BE DISPLACED IN BOTH INSULATION
DISPLACEMENT SLOTS AND MUST PROTRUDE THROUGH THE SECONDARY SLOT BY
(1,52)/,060 MIN, AS SHOWN IN FIGURE 3, 5.2



FIGURE

HORIZONTAL PULL OUT FORCE 5,7

THE CONNECTOR MUST MAINTAIN THE FOLLOWING MIN, PULL OUT VALUES WHEN A FORCE IS SLIT TO FORM INDIVIDUAL CONDUCTORS AFTER TERMINATION APPLIED AT A RATE OF LINCH PER MINUTE TO THE CABLE IN A DIRECTION PERPENDICULAR TO THE INSULATION DISPLACEMENT SECTION. AS SHOWN IN FIGURE PRIOR TO TESTING). (NOTE CABLE MUST BE BUT

14.0 LBS. MIN. PULL FORCE TBD TBD AWG I8 AWG 20 AWG 22 8.0 LBS. MIN.

24 AWG

| GRASP INDIVIDUAL CONDUCTOR AT THIS POINT | | DIRECTION | OF PULL FORCE |
|--|----------------|------------------------|---------------|
| | | | |
| FIGURE 4 | CONNECTOR TO — | BE SECURELY MOUNTED | |

°06

. 5.0"-

VERTICAL PULL OUT FORCE 5,4

SI FORCE (NOTE CABLE MUST BE SLIT TO FORM INDIVIDUAL CONDUCTORS AFTER TERMINATION THE CONNECTOR MUST MAINTAIN THE FOLLOWING MIN. PULL OUT VALUES WHEN PARALLEL TO THE INSULATION DISPLACEMENT SECTION, AS SHOWN IN FIGURE APPLIED AT A RATE OF I INCH PER MINUTE TO THE CABLE IN A DIRECTION BUT PRIOR TO TESTING),

| - | <u>_</u> | | | | SM | 1ES | 5-7 | 1690 |)-00 | 000 |
|------------|----------------------------------|------------|--------|---------------|----|-----------|------------------------|------------------|-------------------------------|---|
| | GRASP INDIVIDUAL Condictor at | THIS POINT | | | | | RCE | | A | 2 |
| (| - GRASP CONDI | SIHL | 1 | | | DIRECTION | OF PULL FORCE | | REV. | .THS |
| 90°+51° | | 0°2 2°0 | | FIGURE 5 | | DIREC | CONNECTOR TO RF - OF P | SECURELY MOUNTED | = 0 REVISE ONLY ON CAD SYSTEM | THIS DRAWING CONTAINS INFORMATION THAT IS PROPIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |
| PULL FORCE | 5.0 LBS. MIN. | TBD | TBD | 2,4 LBS, MIN, | | | | SECUR | | THIS DRAWIN MOLEX INC. AND |
| AWG | I8 AWG | 20 AWG | 22 AWG | 24 AWG | | | REV. | SHT. | FILE NAME T71690X2 | |
| | | DF | RWG. | NO. | SN | 1ES | | | <u> </u> D-00 | 000 |
| | | | | | | | | | | |

DRWG. NO.

SMES-71690-0000

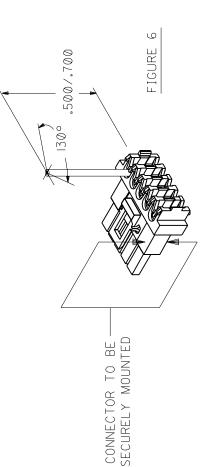


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TERMINATION WIRE

TORSIONAL RESISTANCE: 5.5

WITHOUT DISTURBING THE INSULATION DISPLACEMENT INTERFACE IN THE PRIMARY OR SECONDARY SLOTS (SEE FIGURE 3) (NOTE CABLE MUST BE SLIT TO FORM INDIVIDUAL CONNECTOR MUST WITHSTAND A MAXIMUM TWIST ON A TERMINATED CABLE OF 130° CONDUCTORS AFTER TERMINATION BUT PRIOR TO TESTING),

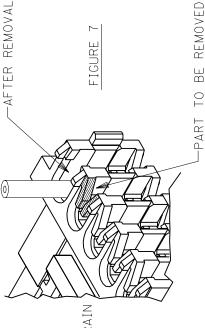


VISUAL INSPECTION: 5.6

AFTER TEMINATION, INSULATION DISPLACEMENT SECTION OF THE TERMINAL TO BE FREE TOOL MARKS FROM TERMINATION EQUIPMENT.

TERMINATION EVALUATION PROCEDURE: 0.0

SHADED PORTION OF THE STRAIN RELIEF USING A RAZOR BLADE REMOVAL I -STRAIN RELIEF REMOVE STEP



-REMOVAL OF TERMINAL \sim STEP

DRWG. NO.

TANGS. OF THE CONNECTOR (AROUND THE TERMINAL) TO DEPRESS LOCK OF. INSERT THE REMOVAL TOOL(#HT60630A)INTO THE FRONT

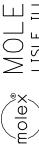
DRWG. NO.

SMES-71690-0000

PUSH THE TERMINAL/WIRE OUT THE BACK OF THE CONNECTOR.

REV.

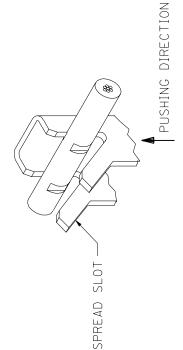
 $_{\Omega}$ REV. SHT. REVISE ONLY ON CAD SYSTEM THIS DRAWING CONTAINS INFORMATION THAT IS PROPIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. 0 0 FILE NAME 1690×3 SHT. SMES-71690-0000



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TERMINATION SPECIFICATION

USING A SMALL PAIR OF PLIERS SPREAD THE I.D.T. SLOT AND REMOVE CONDUCTOR BY PUSHING IN DIRECTION SHOWN -CONDUCTOR REMOVAL \sim STEP



INSULATION TO BE REMOVED WITHOUT DISTURBING I.D.T. AREA -REMOVING INSULATION 4 STEP



CLEARLY VISIBLE WHEN FOUR DEFORMATION POINTS MUST BE USING 10X MAGNIFICATION -CONDUCTOR INSPECTION 2 STEP





PERMISSIBLE

REV. SHT. REVISE ONLY ON CAD SYSTEM THIS DRAWING CONTAINS INFORMATION THAT IS PROPIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. 0 0 FILE NAME T71690X4

REV. SHT.

DRWG. NO. SMES-71690-0000

DRWG. NO. SMES-71690-0000

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MOLEX INCORPORATED 60532 U.S.A.

DRWG. NO. SMES-71690-0000

WIRE TERMINATION SPECIFICATION

| REVISIONS | RELEASED PER ECR U51189 09/15/95 sas | UPDATED PER ECR U70308 ELO 09/20/96 |
|-----------|--|---|
| LTR. | A | В |

STEP I-REMOVAL OF TERMINAL

TANGS. INSERT THE REMOVAL TOOL(#HT60630A)INTO THE FRONT OF OF THE CONNECTOR (AROUND THE TERMINAL) TO DEPRESS LOCK PUSH THE TERMINAL/WIRE OUT THE BACK OF THE CONNECTOR,

STEP 2 -WIRE GAGE PER CHART

| ID LETTER C B | WIRE GAGE 18 AWG 20 AWG |
|-----------------|-------------------------|
| ∢ | 24 AWG |

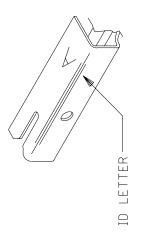


FIGURE 8

| | | | B | 2 |
|-----------|------|--------------|-----------------------|---|
| | | | REV. | SHT. |
| | | | ∇ = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |
| | | KEV. SHT. | FILE NAME T71690X5 | |
| DRWG. NO. | MES- | 7 1690 | -00 | 00 |

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