



22 WAY INLINE HEADLAMP CONNECTOR



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1 GENERAL

1.1 PURPOSE

THIS SPECIFICATION DESCRIBES HOW TO HANDLE THE 22 WAY HEADLAMP CONNECTOR COMPONENTS.

1.2 CUSTOMER DRAWINGS / INTERFACE SPECIFICATION

THIS APPLICATION SPECIFICATION IS BASED ON THE LATEST VALID CUSTOMER DRAWINGS.

- 2295154 FEMALE HOUSING ASSEMBLY, SEALED, 22 WAY CONNECTOR
- 2295167 MALE HOUSING ASSEMBLY, 22 WAY CONNECTOR
- 2295173 WIRE COVER, CABLE EXIT 90°, 22 WAY CONNECTOR
- 2297532 WIRE COVER, CABLE EXIT 180°, 22 WAY CONNECTOR
- 114-94373 INTERFACE SPECIFICATION

1.3 DELIVERY CONDITION OF CONNECTOR AND WIRE COVERS

FEMALE HOUSING ASSEMBLY, SEALED, 22 WAY CONNECTOR	PN X-2295154-X	
MALE HOUSING ASSEMBLY, 22 WAY CONNECTOR	PN 0-2295167-X	
WIRE COVER, CABLE EXIT 90°, 22 WAY CONNECTOR	PN 0-2295173-1	
WIRE COVER, CABLE EXIT 180°, 22 WAY CONNECTOR	PN 0-2297532-1	

1.4 APPLICABLE COMPONENTS

1.4.1 FEMALE CONNECTOR

APPLICABLE COMPONENTS BOX					
DESCRIPTION	PLATING /COLOUR	SUPPLIER	SUPPLIER PART NO. (WIRE SIZE)	TE APPL. SPEC. TE PROD. SPEC.	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-1 (0.35-0.5mm²)	114 - 13183	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-2 (0.75mm?)	114-13183 -	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-3 (0.35-0.5mm²)	114 - 13183	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-4 (0.75mm²)	114 - 13183	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-6 (0.35mm²)	114 - 13183	
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-8 (0.35mm²)	114 - 13183	
2.8 SEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4150-02 (0.35-0.5mm²)	_	
2.8 SEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4151-02 (0.75-1.0mm²)	_	
2.8 SEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4152-02 (1.5-2.5mm²)	_	
2.8mm WIRE SEAL	GREEN	YAZAKI	7158-3111-60 (0.35-0.5mm²)	_	
2.8mm WIRE SEAL	YELLOW	YAZAKI	7158-3112-70 (0.75-1.0mm²)	_	
2.8mm WIRE SEAL	W HITE	YAZAKI	7158-3113-40 (1.5-2.5mm²)	-	
2.8mm BLIND PLUG	BLUE	YAZAKI	7158-3114-90	-	
CAVITY PLUG FOR 0.64 GENERATION Y UNSEALED FEMALE TERMINAL	YELLOW	TE	284583-1	_	
WIRE COVER. CABLE EXIT 90°	BLACK	TE	2295173-1	114-94456	
WIRE COVER. CABLE EXIT 180°	BLACK	TE	2297532-1	114-94456	

ONLY FOR INFORMATION. CHECK LATEST REVISION OF THE SUPPLIER SPECIFICATION FOR TERMINAL PROPERTIES

1.4.2 MALE CONNECTOR

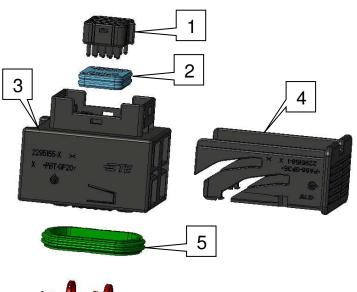
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APPLICABLE COMPONENTS BOX					
DESCRIPTION	PLATING /COLOUR	SUPPLIER	SUPPLIER PART NO. (WIRE SIZE)	TE APPL. SPEC. TE PROD. SPEC.	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-1 (0.35-0.5mm²)	114-13183 -	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-2 (0.75mm²)	114-13183	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-3 (0.35-0.5mm ²)	114 - 13183	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-4 (0.75mm²)	114 - 13183 -	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-6 (0.35mm²)	114 - 13183 -	
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-8 (0.35mm²)	114 - 13183 -	
2.8 MALE TERMINAL	TIN	YAZAKI	7114-4110-02 (0.35-0.5mm ²)	-	
2.8 MALE TERMINAL	TIN	YAZAKI	7114-4111-02 (0.75-1.0mm²)	-	
2.8 MALE TERMINAL	TIN	YAZAKI	7114-4112-02 (1.5-2.5mm²)	-	
2.8 MALE TERMINAL	TIN	TE	0-1326029-1 (0.35mm²)	114-13013	
2.8 MALE TERMINAL	TIN	TE	0-1326029-2 (0,5-1.0mm²)	114-13013	
2.8 MALE TERMINAL	TIN	TE	0-1326029-3 (1.5-2.5mm ²)	114 - 13013	

ONLY FOR INFORMATION. CHECK LATEST REVISION OF THE SUPPLIER SPECIFICATION FOR TERMINAL PROPERTIES

2 CONNECTOR OPERATING INSTRUCTIONS

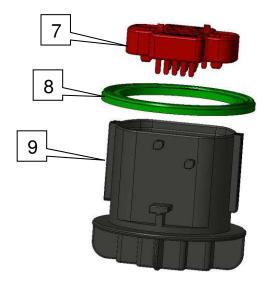
- 2.1 ASSEMBLY OF THE CONNECTOR
- 2.1.1 FEMALE CONNECTOR
- 1 MAT SEAL COVER
- 2 MAT SEAL
- 3 FEMALE HOUSING
- 4 SLIDER
- 5 PERIPHERAL SEAL
- 6 FEMALE SPACER (TPA)





2.1.2 MALE CONNECTOR

- 7 MALE SPACER (TPA)
- 8 PANEL SEAL
- 9 MALE HOUSING

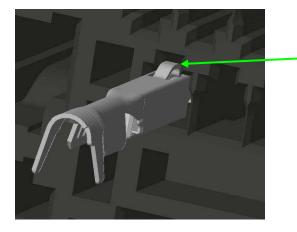


2.2 TERMINAL INSERTION / REMOVAL INSTRUCTIONS

2.2.1 TERMINAL INSERTION

GENERATION Y (0.64) MALE TERMINAL

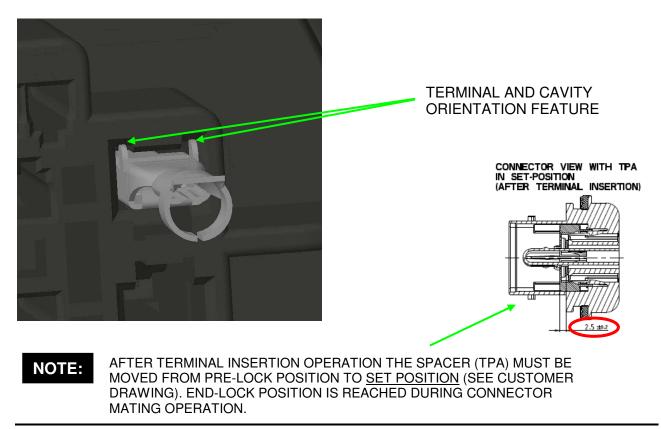
INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".



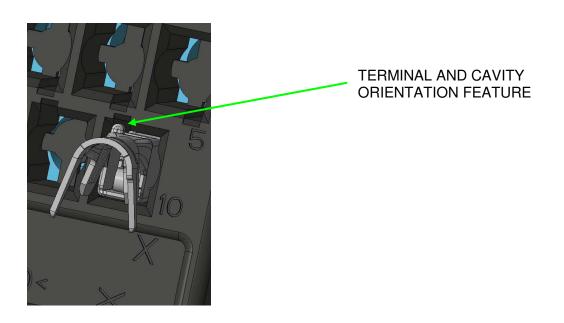
_TERMINAL AND CAVITY ORIENTATION FEATURE

2.8 mm MALE TERMINAL

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".

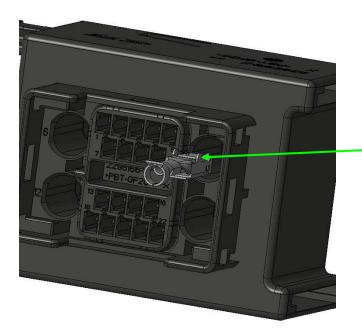


GENERATION Y (0.64) FEMALE TERMINAL



2.8 mm FEMALE TERMINAL

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".



TERMINAL ORIENTATION FEATURE. CAVITY ORIENTATION NOT VISIBLE, TERMINAL MUST ALWAYS BE INSERTED WITH THE ORIENTATION FEATURES TO THE OUTSIDE OF THE CONNECTOR

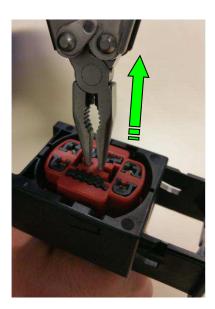
NOTE:

AFTER TERMINAL INSERTION OPERATION THE SPACER (TPA) MUST BE MOVED FROM PRE-LOCK POSITION TO END-LOCK POSITION.

2.2.2 SPACER (TPA) REMOVAL

FEMALE CONNECTOR SPACER (TPA) REMOVAL

FEMALE CONNECTOR SPACER (TPA) IN FULLY ENGAGED POSITION.

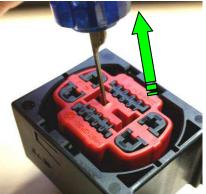


USE A PAIR OF TONGS TO PULL THE SPACER (TPA) OUT OF THE HOUSING

OR

USE A HOOK-LIKE TOOL. INSERT THE TOOL INTO THE SPACER (TPA) HOLE AS SHOWN AND PULL THE SPACER





NOTE:

USE A HOOK-LIKE TOOL (E.G. TE 726531-1) TO REMOVE THE FEMALE SPACER (TPA)



MALE CONNECTOR SPACER (TPA) REMOVAL

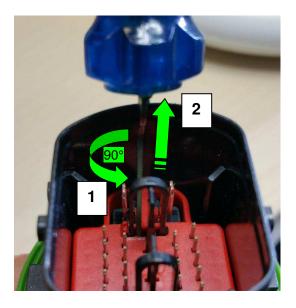
MALE CONNECTOR SPACER (TPA) IN FULLY ENGAGED POSITION.



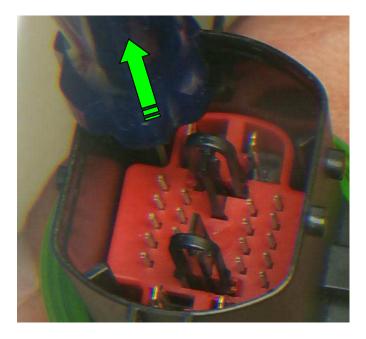
INSERT THE TOOL INTO THE SPACER (TPA) HOLE WITH THE HOOK TURNED AS SHOWN

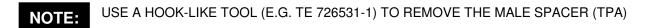


STEP 2 SHORTLY UNDER THE SPACER SURFACE TURN THE TOOL 90° AND PULL THE SPACER (TPA)



STEP 3 PLACE THE TOOL AS SHOWN, TURN THE HOOK UNDER THE SPACER (TPA) AND PULL THE SPACER (TPA) FULLY OUT OF THE HOUSING



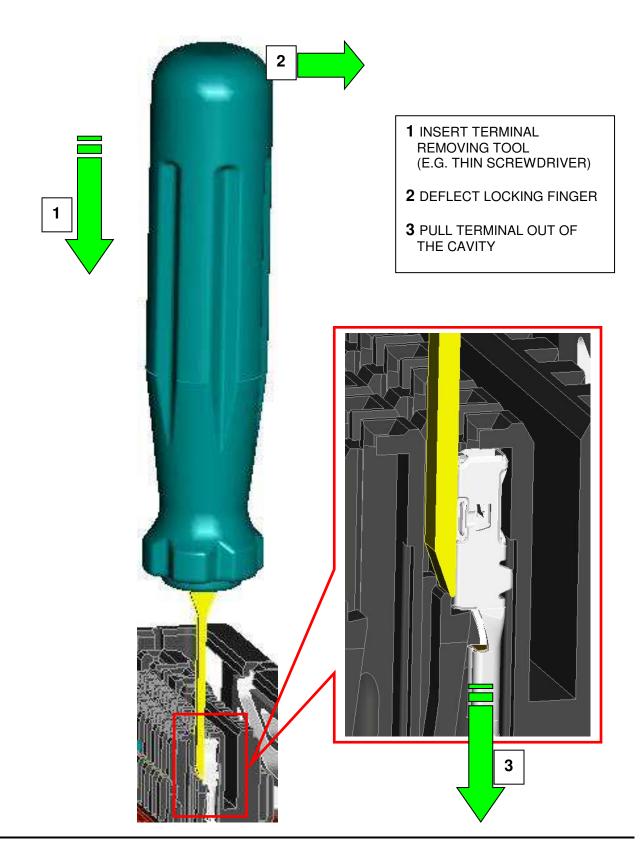




2.2.3 TERMINAL EXTRACTION - APPLY TO ALL TERMINALS



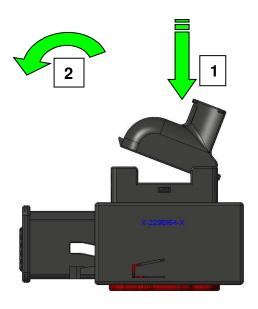
SPACER (TPA) MUST BE FULLY REMOVED BEFORE TERMINAL REMOVAL OPERATIONS!

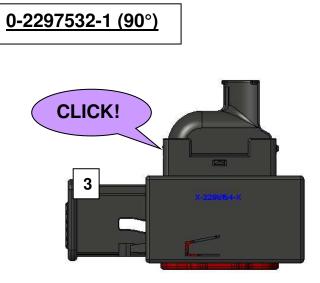


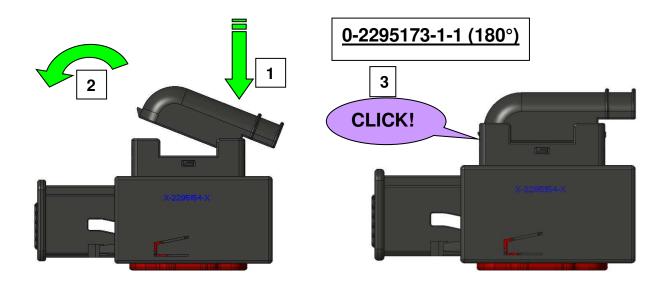
2.3 WIRE OUTER DIAMETER REQUIREMENTS FOR SEALING (MAT SEAL)

PLEASE SEE CUSTOMER DRAWINGS

- 2.4 COVER MOUNTING / REMOVAL INSTRUCTIONS FOR CABLE EXIT 180°/90°
- 2.4.1 COVER MOUNTING







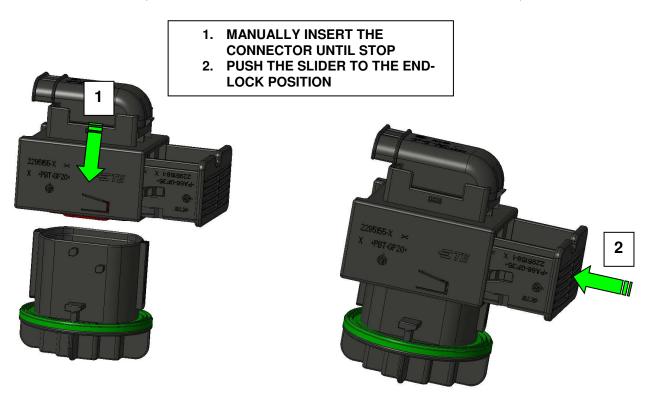
2.4.2 COVER REMOVAL - APPLY TO BOTH 180° AND 90° WIRE COVERS



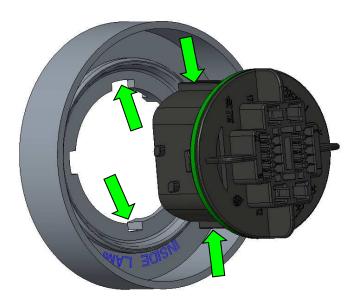
3 CONNECTOR MATING / UNMATING

- 3.1 CONNECTOR MATING
 - 3.1.1 FEMALE CONNECTOR ON MALE CONNECTOR

NOTE: BEFORE MATING THE CONNECTOR MAKE SURE THAT THE SLIDER IS AT PRE-LOCK POSITION (DELIVERY CONDITION SHOWN ON CUSTOMER DRAWING).



3.1.2 MALE CONNECTOR ON HEADLAMP INTERFACE



INSERT THE MALE CONNECTOR INTO THE HEADLAMP CUTOUT

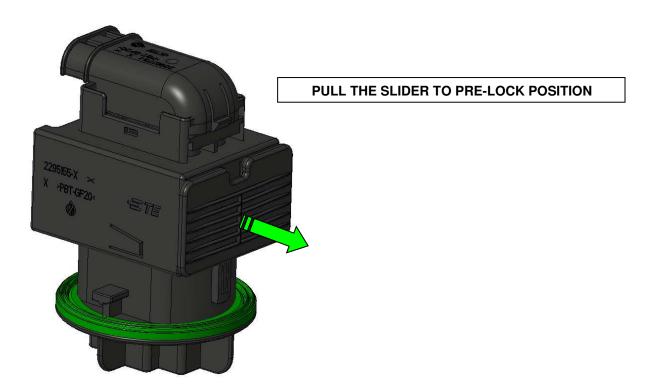




TURN THE CONNECTOR CLOCKWISE UNTIL STOP WHILE KEEPING PUSHING

3.2 CONNECTOR UNMATING

3.2.1 FEMALE CONNECTOR FROM MALE CONNECTOR



3.2.2 MALE CONNECTOR FROM HEADLAMP INTERFACE (NOT RECOMMENDED)



TURN THE CONNECTOR COUNTERCLOCKWISE UNTIL THE CONNECTOR CAN BE PULLED OUT