

TIGHTENING TORQUE VALUES
FOR
PENN-UNION INSULATED COPPER MECHANICAL CONNECTORS
FOR USE WITH COPPER CONDUCTORS

CATALOG FAMILY	CLASS B&C	INTERNAL SOCKET SIZE ACROSS FLATS (INCHES)	TIGHTENING TORQUE IN-LBS	HYPALON®	⚠ DIESEL	STRIP LENGTH (INCHES)
IMLC-4-2S IMLC-4-3S	18 SOL - 4 AWG	5/32	45	18 AWG (16X30) 14 AWG (41X30) 8 AWG (84X27) 6 AWG (84X25)	14(19/24) - 6(61/24)	9/16
IMLC-1/0-2S IMLC-1/0-3S	8 SOL - 1/0 AWG	1/4	150	8 AWG (84X27) 6 AWG (84X25) 4 AWG (105X24) 1 AWG (210X24)	8(37/24) - 2(150/24)	5/8
IMLC-350-2S IMLC-350-3S	4 SOL - 350 MCM	3/8	375	4 AWG (105X24) 1 AWG (210X24) 3/0 AWG (630X26) 4/0 AWG (805X26)	2(150/24) - 4/0(550/24)	1-1/8
IMLC-500-2S IMLC-500-3S	4 SOL - 500 MCM	3/8	375	4 AWG (105X24) 1 AWG (210X24) 3/0 AWG (630X26) 4/0 AWG (805X26)	2(150/24) - 313(775/24)	1-1/4

REF. 9Y81-55095-01 REV 3

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WARNING: FAILURE TO FOLLOW THE INSTALLATION INSTRUCTIONS SHOWN BELOW CAN CAUSE A CONDITION OF SEVERE CONNECTOR OVERHEATING AND RELATED HAZARDS.

INSTALLATION INSTRUCTIONS
INSULATED COPPER MECHANICAL CONNECTORS

"MLC" TYPE CONNECTORS ACCOMMODATE TWO OR THREE COPPER CONDUCTORS.

INSTALLATION PROCEDURE

- (1) SELECT PROPER MLC CONNECTOR SIZE FOR THE CONDUCTOR RANGE TO BE USED.
- (2) STRIP THE INSULATION TO A SUFFICIENT LENGTH FOR FULL INSERTION INTO THE CONNECTOR AND TO OBTAIN PROPER SCREW CONTACT.
- (3) WHEN STRIPPING INSULATION, BE CAREFUL NOT TO NICK THE CONDUCTOR STRANDS. A PROPER INSULATION STRIPPING TOOL OR USE OF A PENCIL SHAVING METHOD IS RECOMMENDED.

WARNING: Nicking of strands will cause a reduction in current carrying capacity of the conductors.

WARNING: Conductor must be stripped IMMEDIATELY PRIOR to installation.

- (4) AFTER CONDUCTORS ARE PROPERLY PREPARED FOR INSTALLATION INSERT CONDUCTORS INTO CONNECTOR BODY TO A SUFFICIENT DEPTH TO ALLOW FULL CONTACT WITH SET SCREW.
- (5) SET SCREWS SHALL BE TIGHTENED TO FINAL TORQUE VALUE SHOWN IN TIGHTENING TORQUE TABLE.

WARNING: Failure to achieve proper torque will result in connector and conductor overheating.

PROPER FUNCTIONING OF PENN-UNION CORP. "MLC" SERIES INSULATED MECHANICAL CONNECTORS IS CONTINGENT UPON INSTALLATION OF THIS PRODUCT IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE INSTRUCTIONS. ANY APPLICATION THAT IS NOT IN ACCORD IS CONSIDERED A MISUSE OF THE PRODUCT. READ INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ASSEMBLIES.



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