CERTIFICATE OF COMPLIANCE

Certificate Number	E193908
Report Reference	E193908-20160718
Issue Date	2020-AUGUST-06
Issued to:	TYCO Electronics Corp 2901 Fulling Mill Rd Middletown PA 17057
This certificate confirms that representative samples of	CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION See Addendum Page
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 2238 - Cable Assemblies and Fittings for Industrial Control and Signal Distribution CAN/CSA C22.2 No. 182.3 - Special Use Attachment Plugs, Receptacles, and Connectors
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Panel mount inlet, M12 Series Connectors:

Cat. No. T41, followed by 3 or 4, followed by 0 or 2, followed by 0, 4 or 5, followed by 120 or 160, followed by 2, 3, 4 or 5, followed by 1, 2 or 3, followed by 000 thru 999.

Cat. No. T41, followed by 7, followed by 1, followed by 0 or 2, followed by 10, followed by 0, 4 or 5, followed by 0, followed by 2, 3, 4 or 5, followed by any three digits of number.

Male-to-Male configurations are not covered due to accessibility of live parts.

Panel mount outlet, M12 Series Connectors:

Cat. No. T41, followed by 3 or 4, followed by 1 or 3, followed by 0, 4 or 5, followed by 120 or 160, followed by 2, 3, 4 or 5, followed by 1, 2 or 3, followed by 000 thru 999.

Cat. No. T41, followed by 7, followed by 1, followed by 1 or 3, followed by 10, followed by 0, 4 or 5, followed by 0, followed by 2, 3, 4 or 5, followed by any three digits of number.

Bruce Mahrenholz, Director North American Certification Program

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Panel mount inlet, M12 Series Connectors:

Cat. No. T41, followed by 3 or 4, followed by 0 or 2, followed by 0, 4 or 5, followed by 120 **or 160**, followed by 2, 3, 4 or 5, followed by 1, 2 or 3, followed by 000 thru 999.

Cat. No. T41, followed by 7, followed by 1, followed by 0 or 2, followed by 10, followed by 0, 4 or 5, followed by 0, followed by 2, 3, 4 or 5, followed by any three digits of number.

Male-to-Male configurations are not covered due to accessibility of live parts.

USL, CNL - Panel mount outlet, M12 Series Connectors:

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Cat. No. T41, followed by 7, followed by 1, followed by 1 or 3, followed by 10, followed by 0, 4 or 5, followed by 0, followed by 2, 3, 4 or 5, followed by any three digits of number.

RATINGS:

Series. Nos.	Number of Live Poles	Number of Ground Poles	AWG	Voltage (Vac/dc)	Current (A)
M12	2, 3, 4	0	24	250	2
			22	250	3
			20-18	250	4
	5	0	24	60	2
			22	60	3
			20-18	60	4

GENERAL:

*USL indicates investigation to United States Standards, UL 2238.

*CNL indicates investigation to Canadian National Standards, C22.2 No. 182.3.

These devices are multi-pole panel mount inlet/outlet. They are field assembled (T413 and T414 Series) or factory assembled (T417 Series) on copper wire and intended for use only in equipment where the acceptability of the combination is determined by UL LLC.

NOMENCLATURE:

Wire and board soldering type:

T	4	1	3	0	0	120	2	1	-	000
*I	II	III	IV	V	VI	**VII**	**VIII**	**IX**		X

Where			
	I -	Brand:	
		T -	TE
	II -	RPC Series:	
		4 -	Circular
	III -	Category:	
		1 -	M12 Series
	IV -	Application Type:	
		3 -	Wire soldering type
		4 -	Board soldering type
	V -	Interface Type:	
		0 -	Front male type
		1 -	Front female type
		2 -	Rear male type
		3 -	Rear female type
	VI -	Code Type:	
		0 -	A code
		4 -	B code
		5 -	D code
	VII -	**Nut:**	
		120 -	**PG9**
		160 -	**M16**
	VIII -	Number of Contacts:	
		2 -	2 poles
		3 -	3 poles
		4 -	4 poles
		5 -	5 poles
*	**IX** -	Contact Plating:	
		1 -	Gold plating (3u”)
		2 -	Silver plating
		3 -	Gold plating (15u”)
*	X -	Sequence number:	
			Can be 000 thru 999

Cable Assy type:

T	4	1	7	1	0	10	0	0	2	-		0**01**	
I	II	III	IV		V		VI		VII			VIII	

Where	I -	Brand:	
		T -	TE
	II -	RPC Series:	
		4 -	Circular
	III -	Category:	
		1 -	M12 Series
	IV -	Application Type:	
		7 -	Assembly with cable type
	V -	Interface Type:	
		0 -	Front male type
		1 -	Front female type
		2 -	Rear male type
		3 -	Rear female type
	VI -	Code Type:	
		0 -	A code
		4 -	B code
		5 -	D code
	VII -	Number of Contacts:	
		2 -	2 poles
		3 -	3 poles
		4 -	4 poles
		5 -	5 poles
	VIII -	**Sequence number**	
			can be any three digits of number