

File E28476
March 04, 1977

REPORT

On

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS

TYCO Electronics Corp
Middletown, PA

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File E28476 Vol. 1 Sec. 31 Page 1 Issued: 1977-03-04
 Vol. 20 Sec. 9 Revised: 2023-09-01
 Vol. 52 Sec. 3
 Vol. 132 Sec. 5
 Vol. 147 Sec. 4
 Vol. 173 Sec. 1
 Vol. 174 Sec. 1
 and Report

DESCRIPTION

PRODUCT COVERED:

USR - Hermetic Cluster Block series; Part Nos. 360051-1, 360052-1, 360033-1, 360050-1, 521078-1, 1217263-1, 520805-1, 520866-1, 880631-5, 1380145-1, and 1380145-2 for use in hermetic compressors rated 120-240 V ac, 60 Hz, single phase.

USR - Hermetic Cluster Block series; Cat. Nos. 1217181-1, 1217186-1, 1217187-1, 521572-1, 521573-1, 521776-1, 521949-1, 1217200-1, 1217261-1, 1217262-1, 1217263-1, 1375735-1, 520995-1, 737110-1, 1604563-1, 521674-1, 521674-2, 521571-1, 521754-1, 1969162-1, 521481-1, 2232326-1, -2, 2232327-1, -2, 1969689-1, 1969689-2, 2825316-1, 284406-3, 284406-1, and 2436913-1.

USR and CNR - Hermetic Cluster Block series, Cat. No 235280-1, 235280-4.

USR and CNR - Hermetic Cluster Block series, Housing Cat. Nos. 2232326-1, 2232326-2, 2232327-1, 2232327-2 with contact PN 2825745-1, 2426423-1, mating with contact PN 2392959-2, 2426423-2, mating with contact PN 2392959-4

USR - Hermetic Cluster Block series,
Housing PN 235280-1, -4 mating with contact PN 62131-5, -6.
Housing PN 235280-1, -4 mating with contact PN 2178453-1.
Housing PN 284406-1, -3 mating with contact PN 2178453-1.
Housing 2825312-1 mating with contact PN 2825313-1.

USR - Hermetic Cluster Block series,
Housing PN 284406-1 mating with this terminal 62131-3, 284633-1.

USR - Hermetic Cluster Block series; Cat. Nos. 2390247-1, 2390247-2 and 2390248-1.

GENERAL:

Catalog number 235280-4 replaces catalog number 0-235280-4. All references below are to the "old" catalog number.

Part No. 360033-1 consists of molded body Part No. 360033 with receptacle connectors Part No. 62131-1, -2 or -3, a No. 16 AWG lead wire.

Part No. 360050-1 or 1217263-1 consists of molded body Part No. 360050 with receptacle connectors Part No. 62131-1, -2 or -3, a No. 16 or 18 AWG lead wire.

Part No. 360051-1 consists of molded body Part No. 360051 with receptacle connector Part No. 62243-1, -2, -3, -4, 62244-1, -2, -3 or -4. Receptacle connector Part No. 62243-1, -2, -3 or -4 employs No. 12 or 14 AWG wire. Receptacle connector Part No. 62244-1, -2, -3 or -4 employs, No. 16 or 18 AWG wire.

File E28476 Vol. 1 Sec. 31 Page 1-1 Issued: 1977-03-04
 Vol. 20 Sec. 9 New: 2022-04-06
 Vol. 52 Sec. 3
 Vol. 132 Sec. 5
 Vol. 147 Sec. 4
 Vol. 173 Sec. 1
 Vol. 174 Sec. 1
 and Report

Electrical Contact Series 63453, 63454, 63455, 63906, 63907, 63908, 1217670, 1217671, 1217672, 1742964, 174298 are for use with magnet wire.

The lead wires are provided by the end-use manufacturer.

The molded bodies and the receptacle connectors are assembled by the end-use manufacturer. Each component is shipped in separate cartons.

Part Nos. 521674-1 and 521674-2 are similar to Part No. 1217200-1 except the former employ shorter housing dimensions.

Part Nos. 1742096-1, 1742116-1 and 1742117-1 are similar to Part Nos. 1217174-1, 1217172-1 and 1217173-1 respectively except the insulation support crimp has been removed.

File E28476	Vol. 1	Sec. 31	Page 1A	Issued: 1977-03-04
	Vol. 20	Sec. 9		Revised: 2023-05-30
	Vol. 52	Sec. 3		
	Vol. 132	Sec. 5		
	Vol. 147	Sec. 4		
	Vol. 173	Sec. 1		
	Vol. 174	Sec. 1		

and Report

Part No. 521571-1 is similar to Part No. 1217181-1 except the former is provided with keyhole type pin entry holes.

Part No. 521481-1 is similar to Part No. 1217200-1 except the former is provided with keyhole type pin entry holes.

Part No. 521754-1 is similar to Part Nos. 521674-1 and 521674-2 except the former is provided with a decreased base skirt height and an increase in chamfer at the front corners.

Part No. 1380145-1, -2 consists of molded body Part No. 1380145 with receptacle connectors Part No. 62131-x, on 16 or 18 AWG lead wire.

Part No. 880631-5 consists of molded body Part No. 880631 with receptacle connectors Part No. 62131-3, on 16 or 18 AWG lead wire.

Contact Cat. Nos. 63906, 63907, 63908, 1217670, 1217671, and 1217672 are similar to contacts Cat. Nos. 63455, 63454, 1217172, 1217172, 1217174, and 63455 respectively, but with larger cross-section mating surface.

Housing Cat. No. 284406-3 is intended to be used solely with contact PN 62131-3. No electrical ratings.

Housing Cat. No. 284406-3 is intended to be used solely with contact PN 284633-1. Combination only has a voltage rating.

Housing Cat. No. 235280-1, 0-235280-4 is intended to be used solely with contact PN 62131-3. Combination only has a voltage rating.

Housing 235280-1, -4 are intended to be used solely with contact PN 62131-5, -6. Combination only has a voltage rating.

Housing 235280-1, -4 are intended to be used solely with contact PN 2178453-1. Combination only has a voltage rating.

Housing 284406-1, -3 are intended to be used solely with contact PN 2178453-1. Combination only has a voltage rating.

Housing Cat. No. 284406-1 is intended to be used solely with contact PN 284633-1. Combination only has a voltage rating.

Housing Cat. No. 284406-1 is intended to be used solely with contact PN 62131-3. Combination only has a voltage rating.

Part No. 2436913-1 is similar to Part No. 1217187-1 except for Housing dimension variations.

and Report

Housings / Receptacles UL file E28476	
Products for Headers having 2.29mm[.090"] Dia. Pins	
Housing #	Receptacle #*
360033-()	62131-()
360050-()	63448-()
521078-()	1217264-()
1217262-()	
1217263-()	
*Any receptacle listed in this group can be used with any housing in the group.	
Products for Headers having 3.18mm[.125"] Dia. Pins	
Housing #	Receptacle #**
360051-()	62243-()
360052-()	62244-()
520995-()	63453-()
521481-()	63454-()
521571-()	63455-()
521572-()	63906-()
521573-()	63907-()
521674-()	63908-()
521754-()	1217172-()
521776-()	1217173-()
521949-()	1217174-()
1217181-()	1217175-()
1217186-()	1217176-()
1217187-()	1217670-()
1217200-()	1217671-()
1217261-()	1217672-()
1969162-()	1742096-()
	1742116-()
	1742117-()
	1742657-()
**Any receptacle listed in this group can be used with any housing in the group.	

and Report

RATINGS:

Cat. Nos.	Voltage Vac/Vdc	Ampere (A)	Conductor Sizes, AWG Cu
2232326-1, -2, 2232327-1, -2	300	-	18 - 16 AWG str
1380145-1, -2	300	-	18 - 16 AWG str
880631-5	300	-	18 - 16 AWG str
520995-1	600 (1)	--	--
284406-3 housing with this terminal 284633-1	240	--	--
235280-1 housing with this terminal 62131-3	300	--	--
0-235280-4 housing with this terminal 62131-3	300	--	--
235280-1, -4 housing with this terminal 62131-5, -6	300	--	--
235280-1, -4 housing with this terminal 2178453-1	300	--	--
284406-1,-3 housing with this terminal 2178453-1	240	--	--
284406-1 housing with this terminal 62131-3, 284633-1	240	--	--
Housing Cat. Nos. 2232326-1 , 2232326-2, 2232327-1, 2232327-2 with contact PN 2825745-1	300	5	20 AWG str
		7	18 AWG str
Housing 2825312-1 mating with contact PN 2825313-1	300	6	18 AWG str
		8	16 AWG str
		10	14 AWG str
Housing 2390247-1 with contact PN 2389402-1, Housing 2390247-2 with contact PN 2389402-1	300	8	20 AWG str
		9	18 AWG str
		10	16 AWG str
Housing 2390248-1 with contact PN 2389402-1	300	8	20 AWG str
		9	18 AWG str
		10	16 AWG str
Housing PN 2426423-1, mating with contact PN 2392959-2.	220 VAC 310 VDC	8	18 AWG str
		10	16 AWG str
		12	14 AWG str
Housing PN 2426423-2, mating with contact PN 2392959-4	220 VAC 310 VDC	8	18 AWG str
		10	16 AWG str
		12	14 AWG str

Note (1): 600VAC at 180Hz

and Report

USR - Products designated USR have been evaluated to the United States Standards as referenced in the Test Record.

CNR - Products designated CNR have been evaluated to the Canadian Standards as referenced in the Test Record.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

These are components intended for use on refrigeration equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

The following should be determined in judging the acceptability of the combination.

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.
2. Unless otherwise specified, these devices have not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

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