

File E6207  
Project 80NK21459

February 20, 1981

REPORT

on

WIRE CONNECTORS

Ilsco Corporation  
Cincinnati, Ohio

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## DESCRIPTION

## PRODUCT COVERED:

Pressure wire connectors, catalog numbers as tabulated below under "Wire Range." The D-XXXX number in parenthesis following the catalog number is a corresponding part number. When no catalog number is provided, the part number, D-XXXX, becomes the identifying catalog number. (Part number also corresponds with drawing number shown in the illustrations.)

## WIRE RANGE:

Cat. No. (Part No.)	Wire Range, AWG or MCM			ILL.	
	Copper	Aluminum	Screw	Connector	
<u>Group 1</u>					
TA-6S (D892)	6-14	6-12	1	1A	
TA-6 (D-979)	6-14	6-12	1	1B	
TA-6S (D-1026)	6-14	6-12	1	1C	
D-2262	6-14	6-12	3Q	1M	
D-2339	6-14	6-12	1	1D	
D-2499	6-14	6-12	1, 3Q	1E	
D-2544	6-14	6-12	1	1F	
D-2545	6-14	6-12	1	1G	
D-2683	6-14	6-12	3Q	1H	
D-2698	6-14	6-12	3Q	1J	
D-3044	6-14	6-12	1-1	1L	
D-3362	6-14	6-12	1-2	1N	
<u>Group 2</u>					
TA-4 (D-2180-22)	4-14	4-12	3Q	2A	
TA-4 (D-2180-23)	4-14	4-12	3Q	2B	
TA-4 (D-2180-24)	4-14	4-12	3Q	2C	
TA-4 (D-2180-25)	4-14	4-12	3Q	2D	
TA-6S (D-2774)	4-14	4-12	<b>3Z</b>	2K	
D-2476	4-14	4-12	3Q	2E	
D-2477	4-14	4-12	3Q	2F	
D-2626	4-14	4-12	1	2G	
D-3022	4-14	4-12	3Q	2H	
D-3353	4-14	4-12	3Q	2J	

(+) - See Footnote, Page 2

(Table cont'd)

Cat. No. (Part No.)	Wire Range, AWG or MCM			ILL.	
	Copper	Aluminum	Screw	Connector	
<u>Group 3</u>					
TA-2S (D893)	2-14		2-12	3	3A
TA-2 (D-980) (+)	2-14		2-12	3, 3Q	3B
TA-2 (D980-4)	2-14		2-12	3	3C
SG-2 (D1430)	2-14		2-12	3	3D
D-1962	2-14		2-12	3	3F

(+) - See Footnote, Page 2

(Table cont'd)

<u>Cat. No. (Part No.)</u>	<u>Wire Range, AWG or MCM</u>		<u>ILL.</u>	
	<u>Copper</u>	<u>Aluminum</u>	<u>Screw</u>	<u>Connector</u>
<u>Group 3</u>				
D-2379	2-14	2-12	3	3G
D-2442	2-14	2-12	3	3H
D-2457	2-14	2-12	3	3I
D-2478	2-14	2-12	3	3J
D-2479	2-14	2-12	3	3K
D-2498	2-14	2-12	3	3L
D-2558	2-14	2-12	3	3M
D-2603	2-14	2-12	3	3N
D-2607	2-14	2-12	3	3O
D-2655	2-14	2-12	3	3P
D-2733 (+)	2-14	2-12	3-2, 3Q	3S
D-2758	2-14	2-12	3	3T
D-2924 (+)	2-14	2-12	3Q	3U
D-3180 (+)	2-14	1-12	3Q	3V
D-3264	2-14	2-12	3-3	3W
D-3667	2-14	2-12	3Q	3X
HD-2 (D3884)	2-14	2-12	3Q	3Y

(+) - Also suitable for (2) 10-14 Cu, (2) 10-12 Al.

<u>Group 4</u>				
TA-0 (D-830) (++)	1/0-14	1/0-12	4	4A
TA-0 (D-2731)	1/0-14	1/0-12	4-1	4Q
TA-0S (D-898) (++)	1/0-14	1/0-12	4	4B
TA-0S (D-957) (++)	1/0-14	1/0-12	4	4C
D-1051 (++)	1/0-14	1/0-12	4	4D
D-1082 (++)	1/0-14	1/0-12	4	4E
D-1307 (++)	1/0-14	1/0-12	4	4F
SG-0 (D-1431) (++)	1/0-14	1/0-12	4	4G
TA-0S (D-1517)	1/0-14	1/0-12	4-1	4H
TA-0S (D-1593) (++)	1/0-14	1/0-12	4	4I
TA-0S (D-1978) (++)	1/0-14	1/0-12	4	4J
D-2157 (++)	1/0-14	1/0-12	4	4K
TA-0S (D-2261) (++)	1/0-14	1/0-12	4	4L
D-2416 (++)	1/0-14	1/0-12	4	4M
D-2480 (++)	1/0-14	1/0-12	4	4N
D-2700 (++)	1/0-14	1/0-12	4	4P
D-2734 (++)	1/0-14	1/0-12	4	4Q
D-2749 (++)	1/0-14	1/0-12	4	4R
D-2848	1/0-14	1/0-12	4-1	4S
D-2990	1/0-14	1/0-12	4-2	4T

(Table continued)

<u>Cat. No. (Part No.)</u>	<u>Wire Range, AWG or MCM</u>		<u>ILL.</u>	
	<u>Copper</u>	<u>Aluminum</u>	<u>Screw</u>	<u>Connector</u>
D-3012 (++)	1/0-14	1/0-12	4	4U
D-3046 (++)	1/0-14	1/0-12	4	4V
D-3184 (++)	1/0-14	1/0-12	4	4W
D-3222 (++)	1/0-14	1/0-12	4	4X
D-3503 (++)	1/0-14	1/0-12	4	4Y
D3689 (++)	1/0-14	1/0-12	4	4Z
D-3799	1/0-8	1/0-8	4-3	4Z-1
<u>Group 5</u>				
D-1736	3-14	3-12	8	8A
D-2352	3-14	3-12	8	8B
<u>Group 6</u>				
TA-0 (D-2647)	1/0-14	1/0-12	9	9A

(++) - Also suitable for (2) 4-12 Cu-Al.

(Table continued)

Cat. No. (Part No.)	Wire Range, AWG or MCM		ILL.	
	Copper	Aluminum	Screw	Connector
TA-2/0 (D-1234, -26, -27)	Group 7			
	2/0-14	2/0-12	<b>9, 9-1,</b>	10B
			<b>10</b>	
*				
SG-2/0 (D-1401)	2/0-6	2/0-6	10A	10C
D-1472	2/0-4	2/0-4	10	10P
D-1476	2/0-4	2/0-4	10	10Q
D-1485	2/0-6	2/0-6	10A	10D
D-1741	2/0-14	2/0-12	9	10E
D-2064	2/0-6	2/0-6	10	10S
D-2332	2/0-6	2/0-6	10	10F
D-2452	2/0-6	2/0-6	10	10G
D-2482	2/0-6	2/0-6	10	10H
D-2520	2/0-6	2/0-6	10	10J
D-2523	2/0-6	2/0-6	10	10K
D-2524	2/0-6	2/0-6	10	10L
D-2571	2/0-6	2/0-6	10	10M
D-2613	2/0-6	2/0-6	10	10N
D-2732	2/0-14	2/0-12	9	10R
	(2)No. 14			
	Sol/Str			
D-2943	2/0-6	2/0-6	10	10T
D-3220	2/0-12	2/0-12	9	10U
	(2)No. 14			
	Sol/Str			
D-3439	2/0-14	2/0-12	9	10V
D-3626	2/0-14	2/0-12	9	10W
HD-2/0 (D3885)	2/0-14	2/0-12	9	10Y
D-3911	2/0-6	2/0-6	9B	10Z
	Group 8			
D-1742	4/0-6	4/0-6	11	11A
D-2285	3/0-6	3/0-6	11	11B
D-2353	3/0-6	3/0-6	11	11C
D-2942	3/0-6	3/0-8	11-1	11D
D-3905	3/0-6	3/0-6	11-2	11E
	Group 9			
TA-250 (D-831)	250-6	250-6	12	12B
TA-250 (D-831-25)	250-6	250-6	12A-2	12Y
TA-250S (D-894)	250-6	250-6	12	12C
D-947	250-6	250-6	12A	12D
TA-250S (D-1368)	250-6	250-6	12	12E
TA-250S (D-1374)	250-6	250-6	12A	12F
SG-250 (D-1481)	250-3/0	250-3/0	12A	12G
TA-250S (D-1669)	250-6	250-6	12	12H
TA-250S (D-1701)	250-6	250-6	12	12J
TA-250S (D-1734)	250-6	250-6	12	12K
D-2345	250-6	250-6	12A	12L
D-2354	250-6	250-6	12	12M
D-2483	250-6	250-6	12	12N
D-1713	250-6	250-6	12	12P

(Table cont'd)

<u>Cat. No. (Part No.)</u>	<u>Wire Range, AWG or MCM</u>		<u>ILL.</u>	
	<u>Copper</u>	<u>Aluminum</u>	<u>Screw</u>	<u>Connector</u>
	<u>Group 9</u>			
TA-250 (D-2699)	250-6	250-6	12	12Q
D-2722	250-6	250-6	12A	12R
D-2831	250-6	250-6	12	12S

(Table cont'd)

Cat. No. (Part No.)	Wire Range, AWG or KCMIL		ILL.	
	Copper	Aluminum	Screw	Connector
	<u>Group 9</u>			
D-2837	250-6	250-6	12	12T
D-2911	250-6	250-6	12	12U
D-3049	250-6	250-6	12-A1	12V
D-3176	250-6	250-6	12	12W
D-3217	250-6	250-6	12	12X
	<u>Group 10</u>			
TA-300 (D-1113)	300-6	300-6	12	13
D-1621	300-6	300-6	12	13A
D-1622	300-6	300-6	12	13B
D-2535	300-6	300-6	12	13C
D-2585	300-6	300-6	12	13D
D-1321	300-6	300-6	12A	13E
D-2628	300-6	300-6	12A	13F
D-946	300-6	300-6	12A	13G
D-2852	300-6	300-6	12	13H
D-3094	300-6	300-6	12A	13J
D-3325	300-6	300-6	12A	13K
D-3515	300-6	300-6	12	13L
D3581	300-6	300-6	12A-2	13M
D3601	300-6	300-6	12A	13N
D3723 (TA-250)	300-6	300-6	12A	13P
D3770	300-4	300-4	13Q	13R
D3786	300-6	300-6	12A, 12A-3	13S
HD-300 (D3886)	300-6	300-6	14A-1	13T
	<u>Group 11</u>			
TA-350 (D-981)	350-6	350-6	14	14B
TA-350S (D-1165)	350-6	350-6	14A	14C
D-1308	350-6	350-6	14A	14D
SG-350 (D-1361)	350-4	350-4	14	14E
D-1473	350-6	350-6	14	14F
D-1594	350-6	350-6	14	14G
D-1954	350-6	350-6	14	14R
TA-350-2NS (D-2208-1)	350-6	350-6	14	14H
D-2286	350-6	350-6	14	14J
D-2342	350-6	350-6	14	14K
D-2343	350-6	350-6	14	14L
D-2450	350-6	350-6	14	14M
D-2584	350-6	350-6	14	14N
TA-350-2N (D-2617)	350-6	350-6	14	14Q
D-2668	350-6	350-6	14	14P
D-1477	350-4	350-4	12	14S
D-2760	350-6	350-6	14	14T
D-2762	350-6	350-6	14	14U
D-2764	350-6	350-6	14	14V
D-2798	350-6	350-6	14	14W
D-2836	350-6	350-6	14	14X
D-2865	350-6	350-6	14A-1	14Y
D-2879	350-6	350-6	14A-1	14Z

(Table cont'd)



<u>Cat. No. (Part No.)</u>	<u>Wire Range, AWG or KCMIL</u>		<u>ILL.</u>	
	<u>Copper</u>	<u>Aluminum</u>	<u>Screw</u>	<u>Connector</u>
	<u>Group 11</u>			
D-2065	350-6	350-6	14	14Z-1
D-3360	350-6	350-6	14A-1	14Z-2
D-3516	350-6	350-6	14	14Z-3
D-3630	350-6	350-6	14A-2	14Z-4
D-2584-47	350-6	350-6	14	14Z-5
D-3742	350-6	350-6	14A-1	14Z-6
TA-350-2N (D3872)	350-6	350-6	14A-3	14Z-7, 14Z-7A
D-3420	350-6	350-6	14A-2	14Z-8
HD-350 (D3887)	350-6	350-6	14Z10	14Z-9
<b>D-3786-23</b>	<b>350-6</b>	<b>350-6</b>	<b>14A-4</b>	<b>13S</b>

<u>Cat. No. (Part No.)</u>	<u>Wire Range, AWG or MCM</u>		<u>ILL.</u>	
	<u>Copper</u>	<u>Aluminum</u>	<u>Screw</u>	<u>Connector</u>
	<u>Group 12</u>			
TA-500 (D-982)	500-4	500-4	15	15B
D-1247	500-4	500-4	15	15C
D-1348	500-4/0	500-4/0	15A	15D
SG-500 (D-1362)	500-4/0	500-4/0	14A	15E
TA-500-1 (D-1471)	500-4	500-4	15	15F
TA-500-1 (D-1789)	500-4	500-4	15	15G
D-2187	500-4/0	500-4/0	15A	15H
D-2327	500-4	500-4	15	15J
D-2537	500-4	500-4	16-1	15K
D-2559	500-4/0	500-4/0	14A	15L
D-2318	500-4	500-4	15	15M
D-2792	500-4	500-4	15A	15N
D-2845	500-4/0	500-4/0	15A	15P
D-2846	500-4/0	500-4/0	15A	15Q
D-2847	500-4/0	500-4/0	15A	15R
D-3512	500-4	500-4	16-1	15S

(Table cont'd)

Cat. No. (Part No.)	Wire Range, AWG or MCM		ILL.	
	Copper	Aluminum	Screw	Connector
Group 13				
TA-600 (D-1027)	600-2	600-2	15A	16
TA-600S (D-1937)	600-2	600-2	15A	16A
<b>TA-600-2NS</b> (D-2054)	600-2	600-2	15A	16B
D-2153	600-1/0	600-1/0	15A	16C
D-2446	600-2	600-2	15A	16D
TA-600-2N (D-2594)	600-2	600-2	15	16E
D-2669	600-2	600-2	15A	16F
D-1139	600-1	600-1	15A	16G
D-2965	600-3/0	600-3/0	16-1	16H
D-3686 (TA-500)	600-4	600-4	15A	16J
D-3794	600-1/0	600-1/0	15A	16K
TA-600-2N (D-3860)	600-2	600-2	15A-1	16L, 16L-1
HD-600 (D3888)	600-4	600-4	17O	16M
Group 14				
D-2916	800-300	800-300	15A	17M
D-1478	750-400	750-400	15A	17L
SG-800 (D-1363)	800-350	800-350	14	17
D-1474	750-250	750-250	15A	17A
TA-800 (D-1794)	800-300	800-300	15A	17B
TA-800-2NS (D-2055)	800-300	800-300	15A	17C
TA-800-2N (D-2595)	800-300	800-300	15A	17D
TA-800-S (D-1028)	800-3/0	800-3/0	15A	17E
TA-800-S (D-2397)	800-3/0	800-3/0	15A	17F
TA-800-S (D-2644)	800-3/0	800-3/0	15A	17G
D-2458	800-3/0	800-3/0	15A	17H
D-2772	750-3/0	750-3/0	15A	17J
D-2785	750-1/0	750-1/0	15A	17K
D-3591	750-3/0	750-3/0	17O	17N
TA-800-2N (D3868)	800-300	800-300	15A	17P, 17P-1
HD-800 (D3889)	800-3/0	800-3/0	17O	17Q
Group 15				
TA-1000 (D-1795)	1000-350	1000-350	18	18A
SG-1000 (D-1364)	1000-350	1000-350	14	18B
<b>TA-1000-2NS</b> (D-2056)	1000-500	1000-500	18	18C
TA-1000-2N (D-2596)	1000-500	1000-500	15A	18D
TA-1000-S (D-1029)	1000-500	1000-500	18	18E
TA-1000-2N (D3864)	1000-350	1000-350	15A	18F, 18F-1

## GENERAL CHARACTER AND USE:

The wire connectors described in this Report are of the integral tang type and are designated to be mounted to a bus bar. They are for general use.

## CAT. NO. D-2967 - FIG. 1 (C84-6482)

General - This photo also depicts the general shape and design of all connectors covered in this Report.

1. Connector Body - Tin plated aluminum, grade designation No. 6061-T5. Dimensions shown on Fig. 1 are given in ILLS. 1 through 3, 6, 8 and 10.
2. Marking - Connector marked with manufacturer's name or trademark, catalog number, wire range, and "CU 9." Information sheet containing table for tightening torques packed within the unit container. See ILL. 5.
3. Clamping Screws - For Cat. Nos. D-2966, -2967 and -2989, manufacturer's Part No. E-942, electro-tin plated aluminum, Grade 6262-T9. See ILL. 4 for dimensions. Lubricated with Mobil Oil Co., Mobilrama No. 245.

For Cat. No. D-3275 manufacturer's Part No. E-1019, electro-tin plated aluminum, Grade 6262-T9. See ILL. 7 for dimensions. Lubricated with Mobil Oil Co. Mobilrama No. 245.

For Cat. No. D-3351 manufacturer's Part No. E-967, electro-tin plated aluminum, Grade 6262-T9. See ILL. 9 for dimensions. Lubricated with Mobil Oil Co. Mobilrama No. 245.

\*For Cat. No. D-3559 manufacturer's Part No. E-944, electro-tin plated aluminum, Grade 6262-T9. See ILL. 11 for dimensions. Lubricated with Mobil Oil Co. Mobilrama No. 245.

**For Cat. No. D-3907 manufacturer's Part No. E-1418, electro-tin plated aluminum, Grade 6262-T9. See ILL. 13 for dimensions. Lubricated with Mobil Oil Co. Mobilrama No. 245.**

Alternate - For Group 4, Part No. D-2990, manufacturer's Part No. E-639, electro-tin plated aluminum, Grade 6262-T9. See ILL. 4-2.

Alternate - For Group 4, Part No. D3799, manufacturer's Part No. E1376, electro-tin plated aluminum, Grade 6262-T9. See ILL. 4-3.

Catalog and part numbers in Group 5 (see "Wire Range") - Manufacturer's Part No. E-710. Steel, see ILL. 8 for dimensions.

Catalog and part number in Group 6 (See "Wire Range") - Manufacturer's Part No. E-950. Electro-tin plated aluminum, Grade 6262-T9. See ILL. 9 for dimensions.

Catalog and part number in Group 7 (See "Wire Range") - Manufacturer's Part No. E-923 and E-930. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 10 and 10A for dimensions.

Alternate - For Cat. No. D2732, D-1741, D3439, D1234, D-3220 and HD-2/0 (D3885) in Group 7 manufacturer's Part No. E-950, Electro-tin plated aluminum, Grade 6262-T9. See ILL. 9 for dimensions.

\*Alternate - For Cat. No. D-1234-26 **and -27** in group 7 manufacturer's Part No. **E1302**, Electro-tin plated aluminum, grade **6262-T9**. See ILL. **9-1** for dimensions.

Alternate - For Cat. No. D-831-25 in group 7 manufacturer's Part No. TA-250, Electro-tin plated aluminum, grade 6061-T6. See ILL. 12Y for dimensions.

Alternate - For Cat. No. D-3911 in group 7 manufacturer's Part No. E0777, Electro-tin plated aluminum, grade 6262-T9. See ILL. 9B for dimensions.

Catalog and part number in Group 8 (See "Wire Range") - Manufacturer's Part No. E-940. Electro-tin plated aluminum, Grade 6262-T9. See ILL. 11 for dimensions.

Alternate - For Group 8, Cat. No. D-2942, manufacturer's Part No. E982. Electro-tin plated aluminum, Grade 6262-T9. See ILL. 11-1.

Alternate - For Group 8, Cat. No. D-3905, manufacturer's Part No. E1342. Electro-tin plated aluminum, Grade 6262-T9. See ILL. 11-2.

Catalog and part number in Group 9 (see "Wire Range") - Manufacturer's Part No. E-939 and -941. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 12 and 12A for dimensions. Manufacturer's Part No. E1096: Electro-tin-plated aluminum Grade 2011-T3. See ILL. 12A-1 for dimensions.

Catalog and part number in Group 10 (see "Wire Range") - Manufacturer's Part Nos. E-939, -941, -1109, -1355, -953 and -1094. Electro-tin plated aluminum, grade 6262-T9. See ILLS. 12, 12A, 12A-2, 13Q, 14A-1 and 12A-3 for dimensions.

File E6207

Vol. 10  
and Report

Sec. 1

Page 3-1A

Issued: 2-20-81  
Revised: 10-20-82

REPLACES PAGE 3-1A

\* Catalog and part number in Group 11 (see "Wire Range") - Manufacturer's Part Nos. E-942, -943, E-953, E-1085, **E-0949**, E-1040 **and E-1145**. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 14, 14A, 14A-1, 14A-2, 14A-3, 14Z10 **and 14A-4** for dimensions.

Catalog and part number in Group 12 (see "Wire Range") - Manufacturer's Part Nos. E-943, -944, -945 and E-409. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 14A, 15, 15A and 16-1 for dimensions.

Catalog and part number in Group 13 (see "Wire Range") - Manufacturer's Part Nos. E-944, -945, -409 -1027 and -965. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 15, 15A 16-1, 15A-1 and 170 for dimensions.

Catalog and part number in Group 14 (see "Wire Range") - Manufacturer's Part Nos. E-942, -945 and -965. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 14, 15A and 170 for dimensions.

Catalog and part number in Group 15 (see "Wire Range") - Manufacturer's Part Nos. E-942, -945 and -946. Electro-tin plated aluminum, Grade 6262-T9. See ILLS. 14, 15A and 18 for dimensions.

3. Marking - (Not shown) - Catalog and part number in Group 1 (see "Wire Range") - Manufacturer's name or trademark, catalog number and wire range die stamped in connector body. "AL9CU" is printed on the unit container and/or stamped in connector body. When screw E909 (ILL. 1) is used "Torque Screw To 25 In.-Lbs" or similar wording is printed on unit container and on an information sheet packed within the unit container. See ILLS. 5 and 6. When alternate screw E309 or ILL. 3Q is used, standard torque marking, ILL. 7, is packed within the unit container. When screw E-713 (ILL. 1-1) is used, the following torques are printed on the unit container and/or on an information sheet packed in the unit container.

<u>Wire Size, AWG</u>	<u>Torque, lb in.</u>
10-14	20
8	40
6	45

Catalog and Part Number In Group 2 (See "Wire Range") - Manufacturer's name or trademark, catalog number, wire range and "AL9CU" die-stamped in connector body. When screw E-909 (ILL. 1) is used "Torque Screw To 25 In.-Lbs" or similar wording is printed on unit container and on an information sheet packed within the unit container. See ILLS. 5 and 6. When alternate screw E-309 (ILL. 3Q) **or E-1400 (ILL. 3Z)** is used, standard torque (ILL. 7) is packed within unit container.

Catalog and Part Numbers In Groups 3 Through 15 (See "Wire Range") - Manufacturer's name or trademark, catalog number, wire range, and "AL9CU" die-stamped in connector body. Information sheet containing table for tightening torques packed within the unit container. See ILLS. 5, 7, and 19.

Alternate - For Cat. No. TA-250S (D-894), an additional information sheet is packed within the unit container showing an alternate torque. See ILL. 20.

Alternate - For Cat. No. D-3591, an additional information sheet is packed within the unit container showing an alternate torque of 620 in-lbs. See ILL. 7-2.

Alternate - For Cat. No. D-3799, "AL7CU" is die stamped in connector body. This connector uses assigned torques. Information sheet containing table for tightening torques packed within the unit container. See ILL 7-3. The following torques are used:

<u>Wire Size, AWG</u>	<u>Torque, lb in.</u>
1/0-3	50
4-6	45
8	40