Specification Details: **Date: 1/14/2008**

Specification: MIL-DTL-22992
Title: Connectors, Plugs and Receptacles, Electrical, Waterproof, Quick Disconnect, Heavy Duty Type
Federal Supply Class (FSC): 5935
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: Yes
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

Contact Information:

DSCC Office of Primary Involvement: Passive Devices Team, DSCC-VQP
Primary DSCC-VQ Contact: 614-692-6608, e-mail: vqp.jf@dla.mil
Secondary DSCC-VQ Contact: 614-692-0620, e-mail: vqp.rvm@dla.mil

Notes:

N/A

Part Configuration:

ADAPTERS ARE QUALIFIED TO ANY COMBINATION OF FINISH, TYPE, ADAPTER SIZE, AND STYLE SHOWN. AN EXAMPLE OF AN ADAPTER IS SHOWN BELOW:

MS NUMBER	FINISH	ADAPTER SIZE NUMBER	TYPE	STYLE
MS17340	N	12	A	1

CONNECTORS ARE QUALIFIED TO ANY COMBINATION OF CLASS, FINISH AND STYLE SHOWN. THE INSERT ARRANGEMENT NUMBER APPLICABLE TO EACH SHELL SIZE IS SHOWN BESIDE THE SHELL SIZE. AN EXAMPLE OF A CONNECTOR IS SHOWN BELOW:

MS NUMBER	CLASS	SHELL SIZE	FINISH	INSERT	STYLE	ALTERNATE POSITION
MS17349	C	20	C	8	P	W

AN EXAMPLE OF THE GOVERNMENT DESIGNATION WHICH IDENTIFIES THE COVER OR RECEPTACLE IS SHOWN BELOW:

MS NUMBER	FINISH	SHELL SIZE	TYPE (MS17349 ONLY)
MS17343	C	20	A

Part Listings:

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS17342
Manufacturer's Designation: QWLD ADAPTER (STEP UP)
Finish: C, N
Style: 1
Type: A, B
Shell: 12 Adapter: 1, 2, 3
Shell: 14 Adapter: 4, 5, 6, 7
Shell: 16
Shell: 18 Adapter: 8
Shell: 20 Adapter: 9, 10, 11, 12
Shell: 22 Adapter: 13, 14
Shell: 24 Adapter: 15, 16, 17, 18
Shell: 28 Adapter: 19, 20, 21
Shell: 32 Adapter: 22, 23, 24, 25
Shell: 36 Adapter: 26, 27, 28, 29, 30
Shell: 40 Adapter: 31, 32, 33, 34
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)
Government Designation: MS17343
Manufacturer's Designation: QWLD-00
Class: C, R
Finish: C, N
Style: P, S
Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52
Test or Qualification Reference: 12-4418

Supplier: ITT Cannon
Government Designation: MS17343
Manufacturer's Designation: WLDO
Class: R
Finish: C, N
Style: P, S
Shell: 18 Insert: 1, 4, 5, 7, 8, 9, 11, 13, 15
Shell: 32 Insert: 1, 6, 7, 9, 15, 17
Test or Qualification Reference: 22992-1101-83

Supplier: ITT Cannon
Government Designation: MS17344
Manufacturer's Designation: WLD6
Class: R
Finish: C, N
Style: P, S
Shell: 18 Insert: 1, 4, 5, 7, 8, 9, 11, 13, 15
Shell: 32 Insert: 1, 6, 7, 9, 15, 17
Test or Qualification Reference: 22992-1101-83

Supplier: ITT Cannon
Government Designation: MS17346
Manufacturer's Designation: WLD2
Class: R
Finish: C, N
Style: P, S
Shell: 18 Insert: 1, 4, 5, 7, 8, 9, 11, 13, 15
Shell: 32 Insert: 1, 6, 7, 9, 15, 17
Test or Qualification Reference: 22992-1101-83

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)
Government Designation: MS17344
Manufacturer's Designation: QWLD-06
Class: C, R
Finish: C, N
Style: P, S
Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)
Government Designation: MS17345
Manufacturer's Designation: QWLD-01
Class: C, R
Finish: C, N
Style: P, S
Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)
Government Designation: MS17346
Manufacturer's Designation: QWLD-02
Class: C, R
Finish: C, N
Style: P, S
Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)

Government Designation: MS17347
Manufacturer's Designation: QWLD-03
Class: C, R
Finish: C, N
Style: P, S

Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52

Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Amphenol Corp. (Mexico)

Government Designation: MS17348
Manufacturer's Designation: QWLD-09
Class: C, R
Finish: C, N
Style: P, S

Shell: 12 Insert: 5
Shell: 14 Insert: 3
Shell: 16 Insert: 2, 7, 9, 10, 11, 12, 13
Shell: 18 Insert: 1, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
Shell: 20 Insert: 2, 4, 7, 8, 9, 14, 15, 16, 17, 18, 21, 22, 24, 27, 29, 33
Shell: 22 Insert: 2, 5, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 27, 36
Shell: 24 Insert: 2, 6, 7, 10, 11, 12, 16, 20, 21, 22, 27, 28
Shell: 28 Insert: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 17, 18, 19, 20, 21, 22
Shell: 32 Insert: 1, 2, 3, 6, 7, 9, 13, 15, 17, 73
Shell: 36 Insert: 3, 5, 6, 7, 8, 9, 10, 15, 52
Shell: 40 Insert: 1, 9, 56
Shell: 44 Insert: 52

Test or Qualification Reference: 12-4418

Supplier: ITT Cannon

Government Designation: MS17348
Manufacturer's Designation: WLD7
Class: R
Finish: C, N
Style: P, S

Shell: 18 Insert: 1, 4, 5, 7, 8, 9, 11, 13, 15
Shell: 32 Insert: 1, 6, 7, 9, 15, 17

Test or Qualification Reference: 22992-1101-83

Supplier: Glenair, Inc.

Government Designation: MS17349
Manufacturer's Designation: GS17349
Finish: C, N

Type: A, B
Shell: 12
Shell: 14
Shell: 16
Shell: 18
Shell: 20
Shell: 22
Shell: 24
Shell: 28
Shell: 32
Shell: 36
Shell: 40
Shell: 44

Test or Qualification Reference: 85049-026-96

Supplier: Amphenol Aerospace/Amphenol Corp.

Government Designation: MS17349
Manufacturer's Designation: QWLD COVER, RECEPTACLE
Finish: C, N

Type: A, B
Shell: 20
Shell: 22
Shell: 24
Shell: 28
Shell: 32
Shell: 36
Shell: 40
Shell: 44
Shell: 12
Shell: 14
Shell: 16
Shell: 18

Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.

Government Designation: MS17350
Manufacturer's Designation: QWLD COVER, PLUG
Finish: C, N

Shell: 12
Shell: 14
Shell: 16
Shell: 18
Shell: 20
Shell: 22
Shell: 24
Shell: 28
Shell: 32
Shell: 36
Shell: 40
Shell: 44

Test or Qualification Reference: 12-4418

Supplier: Glenair, Inc.
Government Designation: MS17350
Manufacturer's Designation: GS17350
Finish: C, N

Shell: 12
Shell: 14
Shell: 16
Shell: 18
Shell: 20
Shell: 22
Shell: 24
Shell: 28
Shell: 32
Shell: 36
Shell: 40
Shell: 44
Test or Qualification Reference: 85049-026-96

Supplier: General Connector
Government Designation: MS90555
Manufacturer's Designation: GLC55C324( )S
Finish: C
Style: S
Shell: 32 Insert: 12, 13
Test or Qualification Reference: 22992-975-04

Supplier: General Connector
Government Designation: MS90556
Manufacturer's Designation: GCL56C32412P
Finish: C
Style: P
Shell: 32 Insert: 12, 13
Test or Qualification Reference: 22992-975-04

Supplier: General Connector
Government Designation: MS90557
Manufacturer's Designation: GCL57C32412S
Finish: C
Style: S
Shell: 32 Insert: 12, 13
Test or Qualification Reference: 22992-975-04

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS18062
Manufacturer's Designation: QWLD, RECEPTACLE, DUMMY STOWAGE
Finish: C, N

Shell: 12
Shell: 14
Shell: 16
Shell: 18
Shell: 20
Shell: 22
Shell: 24
Shell: 28
Shell: 32
Shell: 36
Shell: 40
Shell: 44
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90555
Manufacturer's Designation: 10-4734 ( )
Finish: C, N
Style: S
Shell: 28 Insert: 12, 13
Shell: 32 Insert: 4, 5, 12, 13
Shell: 44 Insert: 3, 12, 13, 50
Shell: 52 Insert: 12, 13
Test or Qualification Reference: 22992-165-73, 22992-166-73, 22992-167-73, 22992-168-73, 22992-1078-73, 22992-804-75, 22992-909-75, 22992-716-76, 22992-938-76

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90556
Manufacturer's Designation: 10-4734 ( )
Finish: C, N
Style: P
Shell: 28 Insert: 12, 13
Shell: 32 Insert: 4, 5, 12, 13
Shell: 44 Insert: 3, 12, 13, 51, 52, 56
Shell: 52 Insert: 12, 13
Test or Qualification Reference: 22992-165-73, 22992-166-73, 22992-167-73, 22992-168-73, 22992-1078-73, 22992-804-75, 22992-909-75, 22992-716-76, 22992-938-76

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90557
Manufacturer's Designation: 10-4734 ( )
Finish: C, N
Style: S
Shell: 28 Insert: 12, 13
Shell: 32 Insert: 4, 5, 12, 13
Shell: 44 Insert: 3, 12, 13, 51
Shell: 52 Insert: 12, 13
Test or Qualification Reference: 22992-165-73, 22992-166-73, 22992-167-73, 22992-168-73, 22992-1078-73, 22992-804-75, 22992-909-75, 22992-716-76, 22992-938-76

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90558
Manufacturer's Designation: 10-4734 ( )
Finish: C, N
Style: P
Shell: 28 Insert: 12, 13
Shell: 32 Insert: 4, 5, 12, 13
Shell: 44 Insert: 3, 12, 13, 50
Shell: 52 Insert: 12, 13
Test or Qualification Reference: 22992-165-73, 22992-166-73, 22992-167-73, 22992-168-73, 22992-1078-73, 22992-804-75, 22992-909-75, 22992-716-76, 22992-938-76

Supplier: General Connector
Government Designation: MS90558
Manufacturer's Designation: GLC58C324( )P
Finish: C
Style: P
Shell: 32 Insert: 12, 13
Test or Qualification Reference: 22992-975-04

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90562-1
Manufacturer's Designation: 11-9951-43

Test or Qualification Reference: 22992-1078-73, 22992-804-75, 22992-123-74

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90562-3
Manufacturer's Designation: 11-9951-3

Test or Qualification Reference: 22992-1078-73, 22992-804-75, 22992-123-74

Supplier: ITT Cannon
Government Designation: MS90562-5
Manufacturer's Designation: 274-8013-000

Test or Qualification Reference: 22992-211-75

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90562-5
Manufacturer's Designation: 294-551-01

Test or Qualification Reference: 22992-1078-73, 22992-804-75, 22992-123-74

Supplier: ITT Cannon
Government Designation: MS90562-6
Manufacturer's Designation: 274-8014-000

Test or Qualification Reference: 22992-211-75

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90562-6
Manufacturer's Designation: 294-551-02

Test or Qualification Reference: 22992-1078-73, 22992-804-75, 22992-123-74

Supplier: General Connector
Government Designation: MS90563-3C
Manufacturer's Designation: AI-000-3457

Test or Qualification Reference: 22992-975-04

Supplier: General Connector
Government Designation: MS90563-4C
Manufacturer's Designation: A1-000-3409

Test or Qualification Reference: 22992-975-04

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-1C
Manufacturer's Designation: 229-134-28000

Test or Qualification Reference: 22992-909-75, 22992-165-73, 22992-167-73, 22992-804-75, 22992-1078-72

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-3C
Manufacturer's Designation: 10-473432-329

Test or Qualification Reference: 2292-1078-73, 22992-909-75, 22992-165-73, 22992-167-73, 22992-804-75

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-4C
Manufacturer's Designation: 10-473432-339

Test or Qualification Reference: 22992-909-75, 22992-165-73, 22992-167-73, 22992-804-75, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-7C
Manufacturer's Designation: 10-473432-449

Test or Qualification Reference: 22992-909-75, 22992-165-73, 22992-167-73, 22992-804-75, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-7N
Manufacturer's Designation: 229-142-44100

Test or Qualification Reference: 22992-716-76

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90563-11C
Manufacturer's Designation: 10-473432-529

Test or Qualification Reference: 22992-909-75, 22992-165-73, 22992-167-73, 22992-804-75, 22992-1078-72

Supplier: General Connector
Government Designation: MS90564-3C
Manufacturer's Designation: A1-000-3464

Test or Qualification Reference: 22992-975-04

Supplier: General Connector
Government Designation: MS90564-4C
Manufacturer's Designation: A1-000-3428

Test or Qualification Reference: 22992-975-04

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-1C
Manufacturer's Designation: 229-135-28000

Test or Qualification Reference: 22992-909-75, 22992-168-73, 22992-166-73, 22992-804-73, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-4C
Manufacturer's Designation: 10-473431-339

Test or Qualification Reference: 22992-909-75, 22992-168-73, 22992-166-73, 22992-804-73, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-7N
Manufacturer's Designation: 229-141-44100

Test or Qualification Reference: 22992-716-76

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90569
Manufacturer's Designation: QWLD ADAPTER (STEP UP) GRIP
Finish: C, N

Type: A, B
Shell: 12 Adapter: 1, 2, 3
Shell: 14 Adapter: 4, 5, 6, 7
Shell: 16
Shell: 18 Adapter: 8
Shell: 20 Adapter: 9, 10, 11, 12
Shell: 22 Adapter: 13, 14
Shell: 24 Adapter: 15, 16, 17, 18
Shell: 28 Adapter: 19, 20, 21
Shell: 32 Adapter: 22, 23, 24
Shell: 36 Adapter: 25, 26, 27, 28, 29
Shell: 40 Adapter: 30, 31, 32, 33
Shell: 44
Test or Qualification Reference: 12-4418

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-3C
Manufacturer's Designation: 10-473431-329

Test or Qualification Reference: 22992-909-75, 22992-168-73, 22992-166-73, 22992-804-73, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-7C
Manufacturer's Designation: 10-473431-449

Test or Qualification Reference: 22992-909-75, 22992-168-73, 22992-166-73, 22992-804-73, 22992-1078-73

Supplier: Amphenol Aerospace/Amphenol Corp.
Government Designation: MS90564-11C
Manufacturer's Designation: 10-473431-529

Test or Qualification Reference: 22992-909-75, 22992-168-73, 22992-166-73, 22992-804-73, 22992-1078-73

Manufacturer and Supplier Location Information

Manufacturer: Amphenol Aerospace/Amphenol Connectors (CAGE Code: 77820)

Location: 40-60 Delaware Avenue, Sidney, NY 13838-1304, US

Plant Locations:
1. Same Address as Manufacturer
2. Amphenol Corp. (Mexico), Products de Memoria S.A. de C.V., Carretera International, Terrazas del cid Km 7.5, Nogales, Sonora, Mexico

Assembly Plant Locations:
1. Amphenol East Asia, Ltd., (Class R Only), Chungli Industrial Park, Taoyuan, Taiwan, R.O.C.
2. Arrow Electronics, 9801 Legler Road, Lenexa, KS 66219, US
3. Avnet EMG, 2200 William D. Tate Avenue, Grapevine, TX 76051, US
4. Powell Electronics Washington, Inc., 3540 West Prospect Road, Fort Lauderdale, FL 33309, US
5. Powell Electronics, Inc., P.O. Box 8765, South Island Road, Philadelphia, PA 19101, US

Manufacturer: General Connector (CAGE Code: 25330)

Location: 23 Front Street, Salem, NJ 08079-1047, US

Plant Location: Same Address as Manufacturer

Manufacturer: Glenair, Inc. (CAGE Code: 06324)

Location: 1211 Air Way, Glendale, CA 91201-2405, US

Plant Location: Same Address as Manufacturer

Manufacturer: ITT Cannon (CAGE Code: 71468)

Location: 666 East Dyer Road, Santa Ana, CA 92702-5612, US

Plant Locations:
1. Same Address as Manufacturer
2. ITT Cannon (Mexico), Prolongacion, Avenieda Obregon #3673, Nogales, Sonora, Mexico