



QUALIFICATIONS VALIDATED
EVERY 12 MONTHS

QPL-50884-49
10-Jul-01
SUPERSEDING
QPL-50884-48
04-May-01

QUALIFIED PRODUCTS LIST
OF
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION
MIL-P-50884
PRINTED WIRING BOARD, FLEXIBLE AND RIGID-FLEX
GENERAL SPECIFICATION FOR

Inactive for new design after 28 February 1999.
For new design use MIL-PRF-31032.

This list has been prepared for use by or for the Government in the acquisition of Printed Wiring, Flexible and Rigid Flex, to the performance requirements of Specification MIL-P-50884. This listing is not intended to and does not connote endorsement by the Department of Defense. All manufacturers listed herein have been qualified under the requirements as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE SUPPLY CENTER COLUMBUS (DSCC-VQ), COLUMBUS, OH 43216-5000, telephone (614) 692-0617.

Extent of Qualification

Paragraph 4.5.3 of MIL-P-50884 extends qualification for a particular type to cover all conductor patterns of that type produced. Qualification of type 2 products shall be extended to cover all other types. Qualification of type 3 products shall be extended to cover types 2 and 1. Qualification of type 4 products shall be extended to cover type 1. Qualification of types 1 and 5 shall apply only to that type. Qualification of any type shall be extended to cover the approved type with a stiffener or solder mask.

NOTES:

- a. The qualification expiration date is the last six digits of the QRN (e.g. mm/dd/yy).
- b. An asterisk (*) adjacent to the QRN denotes the product was tested for and meets the etchback requirements.
- c. A plus (+) adjacent to the QRN denotes that the product tested is manufactured with a flexible metal-clad dielectric covered under a slash sheet(s) other than /1 through /4 of IPC-FC-241. The procuring activity must contact the respective QPL manufacturer to insure that the material used in the manufacturer's process meets their drawing and purchase order requirements. The manufacturer shall be able to provide a Notification of Qualification letter(s) and other official QPL status letters which specify the alternate slash sheet(s) of IPC-FC-241 which may be used for military production.

SUPPLIER'S NAME (ADDRESS ON LAST)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)	SUPPLIER'S NAME (ADDRESS ON LAST)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
TYPE 2		Flexible Circuits, Inc. (Franklin, NH)	50884-090-080403*+
Advanced Circuit Technology, Inc.	50884-033-121501	Flexible Circuits, Inc. (Warrington, PA)	50884-110-092203*+
Flexible Technology, Ltd.	50884-U026-092803	Flex-Link Products, Inc.	50884-061-042704*+
Futura Circuits Corp.	50884-051-052104	Future Technology	50884-013-030103*+
IPC Cal Flex, Inc.	50884-234-120102	Graphic Research LLC	50884-091-071803*+
Strataflex Canada Corp.	50884-98247-101401	Graphic, Plc.	50884-U024-121302*+
Tyco Printed Circuit Group (Santa Clara)	50884-211-121302	Hamby Corporation	50884-224-010702*+
TYPE 4 ADHESIVELESS		Johns Hopkins University	50884-046-030103*+
Accurate Engineering Corp.	50884-061-100801*+	KCA Electronics, Inc.	50884-207-090102*+
Basic Electronics, Inc.	50884-157-101902*+	Lockheed Martin Federal Systems	50884-210-102902*+
CIMULEC	50884-126-012002+	Minco Products Company	50884-115-102202*+
Cirtech	50884-143-090902*+	P.C.B., Ltd.	50884-IL007-072403*+
Cosmotronic Corp.	50884-056-042604*+	Packard-Hughes Interconnect	50884-040-081003*+
Delta Circuit Technology	50884-234-021002*+	Parlex Corp.	50884-088-080403*+
Dynaco Corp.	50884-014-010904*+	Pioneer Circuits, Inc.	50884-147-021404*+
Eltex, Ltd.	50884-IL005-040703*+	Printca AS	50884-007-070102*+
		Printed Circuits, Inc.	31032-004-01

SUPPLIER'S NAME (ADDRESS ON LAST)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)	SUPPLIER'S NAME (ADDRESS ON LAST)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
Ruwel-Werke/Werk Schoeller	50884-031-111601*+		
Sovereign Circuits, Inc.	50884-261-111502*+		
Speedy Circuits	50884-044-070604*+		
Starflex, Inc.	50884-063-042704*+		
Strataflex Canada Corp.	50884-98205-101601*+		
Teledyne Electronic Technologies	50884-125-050302*+		
Tyco Printed Circuit Group (Manchester)	50884-266-012603*+		
Tyco Printed Circuit Group (Santa Clara Div)	50884-063-041302*+		

TYPE 4 WITH ADHESIVES

Advanced Flex, Inc.	50884-049-070604*
Basic Electronics, Inc.	50884-158-090602*
Cosmotronic Corp.	50884-084-112703*
Dynaco Corp.	50884-164-062502*
Flexible Circuits, Inc. (Franklin, NH)	50884-089-080403*
Flex-Link Products, Inc.	50884-060-042704*
Graphic Research LLC	50884-075-080601*
Hans Brockstedt GmbH	50884-ZL5/99-062502*
KCA Electronics, Inc.	50884-206-020303*
Lockheed Martin Federal Systems	50884-228-092002*
Lockheed Martin Missile & Fire Control	50884-075-071403*
Minco Products Company	50884-114-102202*
Northrop Grumman Corp.	50884-027-041804*
P.C.B., Ltd.	50884-IL004-012503*
Packard-Hughes Interconnect	50884-254-121002*
Parlex Corp.	50884-156-031604*
Pioneer Circuits, Inc.	50884-146-021404*
Precision Diversified Industries, LLC	50884-087-091803*
Proto Circuit, Inc.	50884-255-103001*
Racaar Circuit Industries, Inc.	50884-123-100701*
Rigiflex Technology	50884-190-100802*
Ruwel-Werke/Werk Schoeller	50884-030-120401*
Starflex, Inc.	50884-062-042704*
Strataflex Canada Corp.	50884-99138-082502
Teknoflex, Ltd.	50884-U023-030503
Teledyne Electronic Technologies	50884-003-111702*
Tyco Printed Circuits Group (Manchester)	50884-226-101402*

TYPE 5

Advanced Circuit Technology, Inc.	50884-137-100103
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TYPES 1 & 5 ONLY

Labarge Electronics	50884-119-082303
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PART II

The products listed herein are reciprocal based on the NATO Standardization Agreement (STANAG) 4093 or International Standardization Agreements. The foreign-made products listed in Part II of this QPL have been certified by the authorized inspectorate of the foreign government and by the manufacturer, to be manufactured, tested and qualified in conformance with the applicable foreign specification identified with each product. The products listed in Part II are generally suitable for the function applications ascribed to the U.S.-specified products listed in Part I of the QPL; however, the functional performance limits, reliability and other design characteristics of the products listed in Part II may differ somewhat from those of the U.S.-specified products listed in Part I of the QPL. User agencies, industrial equipment designers, and manufacturers are wholly responsible for examining and evaluating the applicable foreign specifications, design data and product qualification test data to determine the technical suitability of the functional performance characteristics of those products for use in components and equipment specified under U.S. Department of Defense procurement contracts. Products listed in Part II of this QPL should not be selected for use in equipment or systems that are beyond the prototype design and development phase.

NATIONAL DEVICE DESIGNATION	TEST REPORT/ REFERENCE NUMBER	NATIONAL QPL	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
TYPE 4	FTB 003/01 Pt. 2	BS-9764-9765-9766	Flexible Technology, Ltd.

Manufacturer and Supplier Location Information

Manufacturer: Accurate Engineering Corp. (CAGE Code: 1W538)

Location: 8710 Telfair Avenue, Sun Valley, CA 91352, US

Plant Location: Same Address as Manufacturer

Manufacturer: Advanced Circuit Technology (CAGE Code: 57034)

Location: 118 Northeastern Boulevard, Nashua, NH 03062-0547, US

Plant Location: Same Address as Manufacturer

Manufacturer: Advanced Flex, Inc. (CAGE Code: 61185)

Location: 15115 Minnetonka Industrial Boulevard, Minnetonka, MN 55435, US

Plant Location: Same Address as Manufacturer

Manufacturer: Basic Electronics, Inc. (CAGE Code: 57357)

Location: 11371 Monarch Street, Garden Grove, CA 92841, US

Plant Location: Same Address as Manufacturer

Manufacturer: CIMULEC (CAGE Code: 0YWU1)

Location: Z.I. Les Jonquieres, 57365 Ennery, France

Plant Location: Same Address as Manufacturer

Manufacturer: Cirtech, Inc. (CAGE Code: 8K616)

Location: 250 East Emerson Avenue, Orange, CA 92665, US

Plant Location: Same Address as Manufacturer

Manufacturer: Cosmotronic Corp. (CAGE Code: 63695)

Location: 16721 Noyes Avenue, Irvine, CA 92714-5176, US

Plant Location: Same Address as Manufacturer

Manufacturer: Delta Circuit Technology (CAGE Code: 8U401)

Location: 16028 Arminta Street, Van Nuys, CA 91342, US

Plant Location: Same Address as Manufacturer

Manufacturer: Dynaco Corp. (CAGE Code: 61642)

Location: 1000 South Priest Drive, Tempe, AZ 85281-5238, US

Plant Location: Same Address as Manufacturer

Manufacturer: Eltek, Ltd. (CAGE Code: S4451)

Location: P.O. Box 159, Sgoola Industrial Park, 49101 Petach - Tikva, Israel

Plant Location: Same Address as Manufacturer

Manufacturer: Flexible Circuits, Inc. (Franklin, NH) (CAGE Code: 0ASS4)

Location: 174 North Main Street, Franklin, NH 03235-1020, US

Plant Location: Same Address as Manufacturer

Manufacturer: Flexible Circuits, Inc. (Warrington, PA) (CAGE Code: 22928)

Location: Paul Valley Industrial Park, Warrington, PA 18976-2580, US

Plant Location: Same Address as Manufacturer

Manufacturer: Flexible Technology, Ltd. (CAGE Code: 0HHP1)

Location: Townhead, Rothsay, Isle of Bute PA20 9JH, UK

Plant Location: Same Address as Manufacturer

Manufacturer and Supplier Location Information

Manufacturer: Flex-Link Products, Inc. (CAGE Code: 6Z867)

Location: 599 Fourth Street, San Fernando, CA 91340-2521, US

Plant Location: Same Address as Manufacturer

Manufacturer: Futura Circuits Corp. (CAGE Code: 0CA49)

Location: 11950 28th Street, N., St. Petersburg, FL 33716, US

Plant Location: Same Address as Manufacturer

Manufacturer: Future Technology (CAGE Code: 1MMS0)

Location: 11140 Talbert Avenue, Fountain Valley, CA 92708, US

Plant Location: Same Address as Manufacturer

Manufacturer: Graphic Research LLC (CAGE Code: 5K529)

Location: 9334 Mason Avenue, Chatsworth, CA 91311-5201, US

Plant Location: Same Address as Manufacturer

Manufacturer: Graphic, Plc. (CAGE Code: U4538)

Location: Lords Meadow Industrial Estate, Credenon, Devon, EX17 1EU, UK

Plant Location: Same Address as Manufacturer

Manufacturer: Hamby Corporation (CAGE Code: 07284)

Location: 27704 Avenue Scott, Valencia, CA 91355-1218, US

Plant Location: Same Address as Manufacturer

Manufacturer: Hans Brockstedt GmbH (CAGE Code: C4831)

Location: Lieterplattenschneiddienst, Kieler Strabe 120, 24119 Kronshagen/Kiel, Germany

Plant Location: Same Address as Manufacturer

Manufacturer: IPC Cal Flex, Inc. (CAGE Code: 1EB30)

Location: 1255 Knollwood Circle, Anaheim, CA 92801, US

Plant Location: Same Address as Manufacturer

Manufacturer: Johns Hopkins University (CAGE Code: 88898)

Location: Applied Physics Laboratory, John Hopkins Road, Laurel, MD 20723-6099, US

Plant Location: Same Address as Manufacturer

Manufacturer: KCA Electronics, Inc. (CAGE Code: 65708)

Location: 1960 W. Corporate Way, Anaheim, CA 92801, US

Plant Location: 711 Fee Ana Street, Placentia, CA, 92670, US

Manufacturer: Labarge Electronics (CAGE Code: 16275)

Location: 1505 Maiden Lane, Joplin, MO 64801-3819, US

Assembly Plant Location: Same Address as Manufacturer

Manufacturer: Lockheed Martin Federal Systems (CAGE Code: 03640)

Location: 1801 State Route 17C, Owego, NY 13827, US

Plant Location: Same Address as Manufacturer

Manufacturer: Lockheed Martin Missiles & Fire Control-Dallas (CAGE Code: 64059)

Location: P.O. Box 650003, M/S L01-54, Dallas, TX 75266-0003, US

Assembly Plant Location: 1701 W. Marshall Drive, Grand Prairie, TX, 75051-2704, US

Manufacturer and Supplier Location Information

Manufacturer: Minco Products Company (CAGE Code: 09359)

Location: 7300 Commerce Lane, Minneapolis, MN 55432-3177, US

Plant Location: Same Address as Manufacturer

Manufacturer: Northrop Grumman Corp. (CAGE Code: 17920)

Location: Defense Systems Division, 600 Hicks Road, Rolling Meadows, IL 60008-1098, US

Plant Location: Same Address as Manufacturer

Manufacturer: P.C.B., Ltd. (CAGE Code: S5725)

Location: P.O. Box 631, Migdal Haemek, 10556, Israel

Plant Location: Same Address as Manufacturer

Manufacturer: Packard-Hughes Interconnect (CAGE Code: 53669)

Location: 17150 Von Karman Avenue, Irvine, CA 92614-9998, US

Plant Locations:

1. Same Address as Manufacturer
2. 14532 Blvd. Pacifico, Tijuana, Mexico

Manufacturer: Parlex Corp. (CAGE Code: 18377)

Location: One Parlex Way, Methuen, MA 01844-4699, US

Plant Location: Same Address as Manufacturer

Manufacturer: Pioneer Circuits, Inc. (CAGE Code: 65723)

Location: 3010 E. Shannon Street, Santa Ana, CA 92704-6387, US

Plant Location: Same Address as Manufacturer

Manufacturer: Precision Diversified Industries, LLC (CAGE Code: 65722)

Location: 14755 27th Avenue North, Plymouth, MN 55447-4809, US

Plant Location: Same Address as Manufacturer

Manufacturer: Printca A.S (CAGE Code: R2180)

Location: Svendborgvej 3, Aalborg, OST Denmark

Plant Location: Same Address as Manufacturer

Manufacturer: Printed Circuits, Inc. (CAGE Code: 65114)

Location: 1200 West 96th Street, Minneapolis, MN 55431-2606, US

Plant Location: Same Address as Manufacturer

Manufacturer: Proto Circuit, Inc. (CAGE Code: 7Z463)

Location: 7 Ascot Parkway, Cuyahoga Falls, OH 44223, US

Plant Location: Same Address as Manufacturer

Manufacturer: Racaar Circuit Industries, Inc. (CAGE Code: 58521)

Location: 9225-F Alabama Avenue, Chatsworth, CA 91311, US

Plant Location: Same Address as Manufacturer

Manufacturer: Rigiflex Technology, Inc. (CAGE Code: 0XBX9)

Location: 1166 N. Grove Street, Anaheim, CA 92806, US

Plant Location: Same Address as Manufacturer

Manufacturer and Supplier Location Information

Manufacturer: Ruwel Werke/Werk Schoeller (CAGE Code: C2877)

Location: Spezialfabrik Furleiterplatten, Werk Schoeller, Marburger Strasse 65, D-35083 Wetter/Hassen, Germany

Plant Location: Same Address as Manufacturer

Manufacturer: Sovereign Circuits, Inc. (CAGE Code: 0GN71)

Location: P.O. Box 216, North Jackson, OH 44451-0216, US

Plant Location: Same Address as Manufacturer

Manufacturer: Speedy Circuits (CAGE Code: 66982)

Location: Division of PJC Technologies, Inc., 5332 Commercial Drive, Huntington Beach, CA 92649-1252, US

Plant Location: Same Address as Manufacturer

Manufacturer: Starflex, Inc. (CAGE Code: 07EU8)

Location: 52 Meadowcroft Street, Lowell, MA 01852, US

Plant Location: Same Address as Manufacturer

Manufacturer: Strataflex Canada Corp. (CAGE Code: 38661)

Location: Division of Strataflex Corp., 11 Dohme Avenue, Toronto, Ontario M4B 1Y7, Canada

Plant Location: Same Address as Manufacturer

Manufacturer: Teknoflex, Ltd. (CAGE Code: 0UH63)

Location: Terminus Road, Chichester, West Sussex, P019 2UA, UK

Plant Location: Same Address as Manufacturer

Manufacturer: Teledyne Electronic Technologies (CAGE Code: 22958)

Location: P.O. Box 68, 110 Lowell Road, Hudson, NH 03051-0068, US

Plant Location: Same Address as Manufacturer

Manufacturer: Tyco Printed Circuit Group (CAGE Code: 65416)

Location: Manchester Division, P.O. Box 60, 50 Harrison Street, Manchester, CT 06040-0060, US

Plant Location: Same Address as Manufacturer

Manufacturer: Tyco Printed Circuits Group (CAGE Code: 65916)

Location: Santa Clara Division, 400 Mathew Street, Santa Clara, CA 95050, US

Plant Location: Same Address as Manufacturer