

SUPPLEMENTAL INFORMATION SHEET FOR QPL SAE AS23053

QUALIFICATIONS HAVE BEEN VALIDATED
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BY VERIFICATION TESTING

QPL-AS23053-2
21 March 2019

SUPPLEMENTAL INFORMATION SHEET FOR QUALIFIED PRODUCTS LIST
OF
PRODUCTS QUALIFIED UNDER SAE AEROSPACE STANDARD
SAE AS23053
INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject non-Government standard and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest adopted issue of the applicable non-Government standard. 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 manufacturer from compliance with the non-Government standard requirements.

The activity responsible for this qualified products list and for qualification approval is the Naval Air Systems Command, AIR-4.4.5.3, 48298 Shaw Rd., Building 1461, Patuxent River, Maryland 20670-1900. Manufacturer's full name, cage number, office and plant addresses are listed at the end of this QPL.

THIS DOCUMENT IS AN OFFICIAL SUPPLEMENTAL INFORMATION SHEET OF THE PRODUCTS TRANSFORMED TO AN EQUIVALENT QUALIFICATION DATA SET (QDS). USERS OF THIS DOCUMENT MUST VISIT THE QUALIFIED PRODUCTS DATABASE (QPD) TO VERIFY QUALIFICATION INFORMATION. PLEASE VISIT [HTTP://ASSIST.DAPS.DLA.MIL/ONLINE/START/](http://assist.daps.dla.mil/online/start/) TO ACCESS INFORMATION. YOU MUST HAVE A USERNAME AND PASSWORD TO ENTER SITE. ONCE LOGGED IN CHOOSE "QPD" FROM THE SIDE MENU. YOU CAN SEARCH BY QPL NUMBER, DOCUMENT NUMBER, GOVERNING SPEC, TITLE, FSC, GOVERNMENT DESIGNATION, NON-GOVERNMENT (NGS) DESIGNATION, MANUFACTURER DESIGNATION, OR SOURCE NAME.

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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SAE-AS23053/1, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, CROSSLINKED CHLORINATED POLYOLEFIN, FLEXIBLE

M23053/1-101-0	80-6110-7310-9 L & 7100025031 L	3M Company
M23053/1-102-0	80-6110-7311-7 L & 7100022434 L	11146003.AA/06-19-2018
M23053/1-103-0	80-6110-7324-0 L & 7100025019 L	
M23053/1-104-0	80-6114-5465-5 L & 7100022435 L	
M23053/1-105-0	80-6114-5466-3 L & 7100022436 L	
M23053/1-106-0	80-6114-5467-1 L & 7100022437 L	
M23053/1-107-0	80-6114-5468-9 L & 7100025030 L	

M23053/1-201-0	80-6106-7556-5 L & 7100062644 L
M23053/1-202-0	80-6106-7557-3 L & 7100025829 L
M23053/1-203-0	80-6106-7558-1 L & 7100025895 L
M23053/1-204-0	80-6106-7559-9 L & 7100079469 L
M23053/1-205-0	80-6106-7542-5 L & 7100025897 L
M23053/1-206-0	80-6106-7560-7 L & 7010396625 L
M23053/1-207-0	80-6106-7561-5 L & 7010350094 L
M23053/1-208-0	80-6106-7562-3 L & 7100025894 L
M23053/1-209-0	80-6106-7563-1 L & 7100025890 L
M23053/1-210-0	80-6106-7564-9 L & 7100084393 L
M23053/1-211-0	80-6106-7565-6 L & 7010350095 L
M23053/1-212-0	80-6106-7566-4 L & 7010297620 L

L = VARIOUS LENGTHS AND SPOOLS

M23053/1-201-0	DUNBAR CRFR-1/4"-0 or DUNBAR QPL™-NPT-1/4"-0	Dunbar Products LLC
M23053/1-202-0	DUNBAR CRFR-3/8"-0 or DUNBAR QPL™-NPT-3/8"-0	11148103.AA/06-19-18
M23053/1-203-0	DUNBAR CRFR-1/2"-0 or DUNBAR QPL™-NPT-1/2"-0	
M23053/1-204-0	DUNBAR CRFR-5/8"-0 or DUNBAR QPL™-NPT-5/8"-0	
M23053/1-205-0	DUNBAR CRFR-3/4"-0 or DUNBAR QPL™-NPT-3/4"-0	
M23053/1-206-0	DUNBAR CRFR-7/8"-0 or DUNBAR QPL™-NPT-7/8"-0	
M23053/1-207-0	DUNBAR CRFR-1"-0 or DUNBAR QPL™-NPT-1"-0	
M23053/1-208-0	DUNBAR CRFR-1-1/4"-0 or DUNBAR QPL™-NPT-1-1/4"-0	
M23053/1-209-0	DUNBAR CRFR-1-1/2"-0 or DUNBAR QPL™-NPT-1-1/2"-0	

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/1-201-0	LG-CRFR-1/4"-0	LS Cable & System 11144903.AA/06-19-18
M23053/1-202-0	LG-CRFR-3/8"-0	
M23053/1-203-0	LG-CRFR-1/2"-0	
M23053/1-204-0	LG-CRFR-5/8"-0	
M23053/1-205-0	LG-CRFR-3/4"-0	
M23053/1-206-0	LG-CRFR-7/8"-0	
M23053/1-207-0	LG-CRFR-1"-0	
M23053/1-208-0	LG-CRFR-1-1/4"-0	
M23053/1-209-0	LG-CRFR-1-1/2"-0	
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M23053/1-101-0	Sumitube R10 1/4" black	Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/1-102-0	Sumitube R10 3/8" black	
M23053/1-103-0	Sumitube R10 1/2" black	
M23053/1-104-0	Sumitube R10 5/8" black	
M23053/1-105-0	Sumitube R10 3/4" black	
M23053/1-106-0	Sumitube R10 7/8" black	
M23053/1-107-0	Sumitube R10 1" black	
M23053/1-108-0	Sumitube R10 1 1/4" black	
M23053/1-109-0	Sumitube R10 1 1/2" black	
M23053/1-110-0	Sumitube R10 1 3/4" black	
M23053/1-111-0	Sumitube R10 2" black	
M23053/1-112-0	Sumitube R10 3" black	
M23053/1-113-0	Sumitube R10 4" black	
M23053/1-101-0	Sumitube R 1/4" black	
M23053/1-102-0	Sumitube R 3/8" black	
M23053/1-103-0	Sumitube R 1/2" black	
M23053/1-104-0	Sumitube R 5/8" black	
M23053/1-105-0	Sumitube R 3/4" black	
M23053/1-106-0	Sumitube R 7/8" black	
M23053/1-107-0	Sumitube R 1" black	
M23053/1-108-0	Sumitube R 1 1/4" black	
M23053/1-109-0	Sumitube R 1 1/2" black	
M23053/1-110-0	Sumitube R 1 3/4" black	
M23053/1-111-0	Sumitube R 2" black	
M23053/1-112-0	Sumitube R 3" black	
M23053/1-113-0	Sumitube R 4" black	

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
MARKER SLEEVE CONTINUOUS TUBING FOR SUMIMARK PRINTERS		
M23053/1-101-0 M23053/1-102-0 M23053/1-103-0 M23053/1-104-0 M23053/1-105-0 M23053/1-106-0 M23053/1-107-0 M23053/1-108-0 M23053/1-109-0 M23053/1-110-0 M23053/1-111-0	Sumimark SM3-16 1/4" black Sumimark SM3-16 3/8" black Sumimark SM3-16 1/2" black Sumimark SM3-16 5/8" black Sumimark SM3-16 3/4" black Sumimark SM3-16 7/8" black Sumimark SM3-16 1" black Sumimark SM3-16 1 1/4" black Sumimark SM3-16 1 1/2" black Sumimark SM3-16 1 3/4" black Sumimark SM3-16 2" black	Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/1-201-0 M23053/1-202-0 M23053/1-203-0 M23053/1-204-0 M23053/1-205-0 M23053/1-206-0 M23053/1-207-0 M23053/1-208-0 M23053/1-209-0 M23053/1-210-0 M23053/1-211-0 M23053/1-212-0 M23053/1-213-0	Sumitube R10 1/4" black Sumitube R10 3/8" black Sumitube R10 1/2" black Sumitube R10 5/8" black Sumitube R10 3/4" black Sumitube R10 7/8" black Sumitube R10 1" black Sumitube R10 1 1/4" black Sumitube R10 1 1/2" black Sumitube R10 1 3/4" black Sumitube R10 2" black Sumitube R10 3" black Sumitube R10 4" black	
M23053/1-201-0 M23053/1-202-0 M23053/1-203-0 M23053/1-204-0 M23053/1-205-0 M23053/1-206-0 M23053/1-207-0 M23053/1-208-0 M23053/1-209-0 M23053/1-210-0 M23053/1-211-0 M23053/1-212-0 M23053/1-213-0	Sumitube R 1/4" black Sumitube R 3/8" black Sumitube R 1/2" black Sumitube R 5/8" black Sumitube R 3/4" black Sumitube R 7/8" black Sumitube R 1" black Sumitube R 1 1/4" black Sumitube R 1 1/2" black Sumitube R 1 3/4" black Sumitube R 2" black Sumitube R 3" black Sumitube R 4" black	

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE
CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

		Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/1-201-0	Sumimark SM3-16 1/4" black	
M23053/1-202-0	Sumimark SM3-16 3/8" black	
M23053/1-203-0	Sumimark SM3-16 1/2" black	
M23053/1-204-0	Sumimark SM3-16 5/8" black	
M23053/1-205-0	Sumimark SM3-16 3/4" black	
M23053/1-206-0	Sumimark SM3-16 7/8" black	
M23053/1-207-0	Sumimark SM3-16 1" black	
M23053/1-208-0	Sumimark SM3-16 1 1/4" black	
M23053/1-209-0	Sumimark SM3-16 1 1/2" black	
M23053/1-210-0	Sumimark SM3-16 1 3/4" black	
M23053/1-211-0	Sumimark SM3-16 2" black	

		TE Connectivity- CA 11120203.AA/06-19-18
M23053/1-101-0	NT-MIL-1/4-0-L	
M23053/1-102-0	NT-MIL-3/8-0-L	
M23053/1-103-0	NT-MIL-1/2-0-L	
M23053/1-104-0	NT-MIL-5/8-0-L	
M23053/1-105-0	NT-MIL-3/4-0-L	
M23053/1-106-0	NT-MIL-7/8-0-L	
M23053/1-107-0	NT-MIL-1-0-L	
M23053/1-108-0	NT-MIL-1-1/4-0-L	
M23053/1-109-0	NT-MIL-1-1/2-0-L	
M23053/1-110-0	NT-MIL-1-3/4-0-L	
M23053/1-111-0	NT-MIL-2-0-L	
M23053/1-112-0	NT-MIL-3-0-L	
M23053/1-113-0	NT-MIL-4-0-L	
M23053/1-201-0	NT-MIL-1/4-0-L	
M23053/1-202-0	NT-MIL-3/8-0-L	
M23053/1-203-0	NT-MIL-1/2-0-L	
M23053/1-204-0	NT-MIL-5/8-0-L	
M23053/1-205-0	NT-MIL-3/4-0-L	
M23053/1-206-0	NT-MIL-7/8-0-L	
M23053/1-207-0	NT-MIL-1-0-L	
M23053/1-208-0	NT-MIL-1-1/4-0-L	
M23053/1-209-0	NT-MIL-1-1/2-0-L	
M23053/1-210-0	NT-MIL-1-3/4-0-L	
M23053/1-211-0	NT-MIL-2-0-L	
M23053/1-212-0	NT-MIL-3-0-L	
M23053/1-213-0	NT-MIL-4-0-L	

L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**SAE-AS23053/4, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE,
POLYOLEFIN, DUAL-WALL, OUTER WALL CROSSLINKED**

M23053/4-101-*	80-6114-7373-9 * L & 7010349873 * L	3M Company
M23053/4-102-*	80-6103-2412-3 * L & 7010320184 * L	11146003.AA/06-19-2018
M23053/4-103-*	80-6106-4637-6 * L & 7010396590 * L	
M23053/4-104-*	80-6102-5885-9 * L & 7010320078 * L	
M23053/4-105-*	80-6102-4584-9 * L & 7010305540 * L	
M23053/4-106-*	80-6102-4588-0 * L & 7010398106 * L	
M23053/4-107-*	80-6102-4592-2 * L & 7010349774 * L	
M23053/4-108-*	80-6109-5810-2 * L & 7010397034 * L	
M23053/4-201-*	80-6106-4548-5 * L & 7010349965 * L	
M23053/4-202-*	80-6106-4549-3 * L & 7010305588 * L	
M23053/4-203-*	80-6106-4550-1 * L & 7010396580 * L	
M23053/4-204-*	80-6106-4551-9 * L & 7010349966 * L	
M23053/4-205-*	80-6106-4552-7 * L & 7010396581 * L	
M23053/4-206-*	80-6106-4553-5 * L & 7010319140 * L	

* = COLOR SEE AS23053 L = VARIOUS LENGTHS AND SPOOLS

	4' LENGTHS ONLY	Alpha Wire Company
M23053/4-201-*	FIT-750 1/4"	11145803.AA/06-19-18
M23053/4-202-*	FIT-750 3/8"	
M23053/4-203-*	FIT-750 1/2"	
M23053/4-204-*	FIT-750 3/4"	
M23053/4-302-*	FIT-321 1/4"	
M23053/4-303-*	FIT-321 1/2"	

* = COLOR SEE AS23053

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/4-101-*	DUNBAR 3625WS-1/8"-* or DUNBAR QPL™-321AS-1/8"-*	Dunbar Products LLC 11148103.AA/06-19-18
M23053/4-102-*	DUNBAR 3625WS-3/16"-* or DUNBAR QPL™-321AS-3/16"-*	
M23053/4-103-*	DUNBAR 3625WS-1/4"-* or DUNBAR QPL™-321AS-1/4"-*	
M23053/4-104-*	DUNBAR 3625WS-3/8"-* or DUNBAR QPL™-321AS-3/8"-*	
M23053/4-105-*	DUNBAR 3625WS-1/2"-* or DUNBAR QPL™-321AS-1/2"-*	
M23053/4-106-*	DUNBAR 3625WS-3/4"-* or DUNBAR QPL™-321AS-3/4"-*	
M23053/4-107-*	DUNBAR 3625WS-1"-* or DUNBAR QPL™-321AS-1"-*	
M23053/4-108-*	DUNBAR 3625WS-0.3"-* or DUNBAR QPL™-321AS-0.3"-*	
M23053/4-201-*	DUNBAR 1625W-1/4"-* or DUNBAR QPL™-221A-1/4"-*	
M23053/4-202-*	DUNBAR 1625W-3/8"-* or DUNBAR QPL™-221A-3/8"-*	
M23053/4-203-*	DUNBAR 1625W-1/2"-* or DUNBAR QPL™-221A-1/2"-*	
M23053/4-204-*	DUNBAR 1625W-3/4"-* or DUNBAR QPL™-221A-3/4"-*	
M23053/4-205-*	DUNBAR 1625W-1"-* or DUNBAR QPL™-221A-1"-*	
M23053/4-206-*	DUNBAR 1625W-1-1/2"-* or DUNBAR QPL™-221A-1-1/2"-*	
M23053/4-301-*	DUNBAR 3635W-1/8"-* or DUNBAR QPL™-321A-1/8"-*	
M23053/4-302-*	DUNBAR 3635W-1/4"-* or DUNBAR QPL™-321A-1/4"-*	
M23053/4-303-*	DUNBAR 3635W-1/2"-* or DUNBAR QPL™-321A-1/2"-*	
M23053/4-304-*	DUNBAR 3635W-1"-* or DUNBAR QPL™-321A-1"-*	
M23053/4-305-*	DUNBAR 3635W-1-1/2"-* or DUNBAR QPL™-321A-1-1/2"-*	

* = COLOR
SEE AS23053

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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	4' LENGTHS ONLY	Grayline LLC 11145903.AA/06-19-18
M23053/4-201-*	AL2X 1/4"	
M23053/4-202-*	AL2X 3/8"	
M23053/4-203-*	AL2X 1/2"	
M23053/4-204-*	AL2X 3/4"	

* = COLOR SEE AS23053

	4' LENGTHS ONLY	Insultab, Inc. 11145503.AA/06-19-2018
M23053/4-201-*	HS-101-MW-2:1 1/4"	
M23053/4-202-*	HS-101-MW-2:1 3/8"	
M23053/4-203-*	HS-101-MW-2:1 1/2"	
M23053/4-204-*	HS-101-MW-2:1 3/4"	
M23053/4-302-*	HS-101-MW-3:1 1/4"	
M23053/4-303-*	HS-101-MW-3:1 1/2"	

* = COLOR SEE AS23053

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/4-101-*	GSHS-3625WS-1/8"-*	LS Cable & System 11144903.AA/06-19-18
M23053/4-102-*	GSHS-3625WS-3/16"-*	
M23053/4-103-*	GSHS-3625WS-1/4"-*	
M23053/4-104-*	GSHS-3625WS-3/8"-*	
M23053/4-105-*	GSHS-3625WS-1/2"-*	
M23053/4-106-*	GSHS-3625WS-3/4"-*	
M23053/4-107-*	GSHS-3625WS-1"-*	
M23053/4-108-*	GSHS-3625WS-0.3"-*	
M23053/4-201-*	GSHS-1625W-1/4"-*	
M23053/4-202-*	GSHS-1625W-3/8"-*	
M23053/4-203-*	GSHS-1625W-1/2"-*	
M23053/4-204-*	GSHS-1625W-3/4"-*	
M23053/4-205-*	GSHS-1625W-1"-*	
M23053/4-206-*	GSHS-1625W-1-1/2"-*	
M23053/4-301-*	GSHS-3635W-1/8"-*	
M23053/4-302-*	GSHS-3635W-1/4"-*	
M23053/4-303-*	GSHS-3635W-1/2"-*	
M23053/4-304-*	GSHS-3635W-1"-*	
M23053/4-305-*	GSHS-3635W-1-1/2"-*	

* = COLOR SEE AS23053

* = COLOR SEE AS23053

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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	BULK TUBING (SPOOLED)	Sumitomo Electric
M23053/4-201-*	Sumitube O2B2S 1/4"	11122703.AA/06-19-18
M23053/4-202-*	Sumitube O2B2S 3/8"	
M23053/4-203-*	Sumitube O2B2S 1/2"	
M23053/4-204-*	Sumitube O2B2S 3/4"	

	4' LENGTHS ONLY	
M23053/4-201-*	Sumitube O2B2 1/4"	
M23053/4-202-*	Sumitube O2B2 3/8"	
M23053/4-203-*	Sumitube O2B2 1/2"	
M23053/4-204-*	Sumitube O2B2 3/4"	

	**MARKER SLEEVE TUBING FOR SUMIMARK PRINTERS	
M23053/4-201-*	Sumimark SM3-24-1/4"	
M23053/4-202-*	Sumimark SM3-24-3/8"	
M23053/4-203-*	Sumimark SM3-24-1/2"	
M23053/4-204-*	Sumimark SM3-24-3/4"	

	BULK TUBING (SPOOLED)	
M23053/4-302-*	Sumitube W3B2S 1/4"	
M23053/4-303-*	Sumitube W3B2S 1/2"	

	**MARKER SLEEVE TUBING FOR SUMIMARK PRINTERS	
M23053/4-302-*	Sumimark SM3-25-1/4"	
M23053/4-303-*	Sumimark SM3-25-1/2"	

* = COLOR SEE AS23053

** SUMIMARK TUBING
AVAILABLE ON SPOOLS ONLY.

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SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/4-301-*	Sumitube W3B2 1/8"(3/1)	Sumitomo Electric - Germany
M23053/4-302-*	Sumitube W3B2 1/4"(6/2)	11148403.AA/02-01-19
M23053/4-303-*	Sumitube W3B2 1/2"(12/4)	

* = COLOR SEE AS23053

M23053/4-101-*	Sumitube W5DL 1/8"	Sumitomo Electric – Japan
M23053/4-102-*	Sumitube W5DL 3/16"	11148303.AA/02-01-19
M23053/4-103-*	Sumitube W5DL 1/4"	
M23053/4-104-*	Sumitube W5DL 3/8"	
M23053/4-105-*	Sumitube W5DL 1/2"	
M23053/4-106-*	Sumitube W5DL 3/4"	
M23053/4-107-*	Sumitube W5DL 1"	
M23053/4-108-*	Sumitube W5DL 300/050/100	
M23053/4-201-*	Sumitube O2B2 1/4"	
M23053/4-202-*	Sumitube O2B2 3/8"	
M23053/4-203-*	Sumitube O2B2 1/2"	
M23053/4-204-*	Sumitube O2B2 3/4"	
M23053/4-205-*	Sumitube O2B2 1"	
M23053/4-206-*	Sumitube O2B2 1 1/2"	
M23053/4-201-*	Sumitube O2B2S 1/4"	
M23053/4-202-*	Sumitube O2B2S 3/8"	
M23053/4-203-*	Sumitube O2B2S 1/2"	
M23053/4-204-*	Sumitube O2B2S 3/4"	
M23053/4-205-*	Sumitube O2B2S 1"	
M23053/4-206-*	Sumitube O2B2S 1 1/2"	

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE
CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/4-201-*
M23053/4-202-*
M23053/4-203-*
M23053/4-204-*
M23053/4-205-*
M23053/4-206-*

Sumimark SM3-24 1/4"
Sumimark SM3-24 3/8"
Sumimark SM3-24 1/2"
Sumimark SM3-24 3/4"
Sumimark SM3-24 1"
Sumimark SM3-24 1 1/2"

Sumitomo Electric – Japan
11148303.AA/02-01-19
(continued)

M23053/4-301-*
M23053/4-302-*
M23053/4-303-*
M23053/4-304-*
M23053/4-305-*

Sumitube W3B2 1/8" (3/1)
Sumitube W3B2 1/4" (6/2)
Sumitube W3B2 1/2" (12/4)
Sumitube W3B2 1" (24/8)
Sumitube W3B2 1 1/2" (40/13)

M23053/4-301-*
M23053/4-302-*
M23053/4-303-*
M23053/4-304-*
M23053/4-305-*

Sumitube W3B2S 1/8" (3/1)
Sumitube W3B2S 1/4" (6/2)
Sumitube W3B2S 1/2" (12/4)
Sumitube W3B2S 1" (24/8)
Sumitube W3B2S 1 1/2" (40/13)

**MARKER SLEEVE
CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/4-301-*
M23053/4-302-*
M23053/4-303-*
M23053/4-304-*
M23053/4-305-*

Sumimark SM3-25 1/8" (3/1)
Sumimark SM3-25 1/4" (6/2)
Sumimark SM3-25 1/2" (12/4)
Sumimark SM3-25 1" (24/8)
Sumimark SM3-25 1 1/2" (40/13)

M23053/4-301-*
M23053/4-302-*
M23053/4-303-*
M23053/4-304-*
M23053/4-305-*

Sumitube W3B2(4X) 4/1
Sumitube W3B2(4X) 8/2
Sumitube W3B2(4X) 16/4
Sumitube W3B2(4X) 24/6
Sumitube W3B2(4X) 32/8

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/4-101-*	SCL-1/8-*-L	TE Connectivity- CA 11120203.AA/06-19-18
M23053/4-102-*	SCL-3/16-*-L	
M23053/4-103-*	SCL-1/4-*-L	
M23053/4-104-*	SCL-3/8-*-L	
M23053/4-105-*	SCL-1/2-*-L	
M23053/4-106-*	SCL-3/4-*-L	
M23053/4-107-*	SCL-1-*-L	
M23053/4-108-*	SCL-300-*-L	
M23053/4-201-*	TAT-125-1/4-*-L	
M23053/4-202-*	TAT-125-3/8-*-L	
M23053/4-203-*	TAT-125-1/2-*-L	
M23053/4-204-*	TAT-125-3/4-*-L	
M23053/4-205-*	TAT-125-1-*-L	
M23053/4-206-*	TAT-125-1-1/2-*-L	
M23053/4-301-*	ATUM-3/1-*-MS-L	
M23053/4-302-*	ATUM-6/2-*-MS-L	
M23053/4-303-*	ATUM-12/4-*-MS-L	
M23053/4-304-*	ATUM-24/8-*-MS-L	
M23053/4-305-*	ATUM-40/13-*-MS-L	

* = COLOR SEE AS23053

* = COLOR
L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

M23053/4-201-*	TAT-125-1/4-*-L	TE Connectivity- Czech Republic 11120203.AD/06-19-18
M23053/4-202-*	TAT-125-3/8-*-L	
M23053/4-203-*	TAT-125-1/2-*-L	
M23053/4-204-*	TAT-125-3/4-*-L	
M23053/4-205-*	TAT-125-1-*-L	
M23053/4-206-*	TAT-125-1-1/2-*-L	

* = COLOR SEE AS23053

* = COLOR
L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**SAE-AS23053/5, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE,
POLYOLEFIN, FLEXIBLE, CROSSLINKED**

M23053/5-101-*	80-6102-1926-5 * L & 7100042117 * L	3M Company 11146003.AA/06-19-2018
M23053/5-102-*	80-6102-2724-3 * L & 7010290772 * L	
M23053/5-103-*	80-6102-2726-8 * L & 7010396241 * L	
M23053/5-104-*	80-6102-2729-2 * L & 7010349752 * L	
M23053/5-105-*	80-6102-2733-4 * L & 7010396242 * L	
M23053/5-106-*	80-6102-2736-7 * L & 7010320061 * L	
M23053/5-107-*	80-6102-1959-6 * L & 7100020270 * L	
M23053/5-108-*	80-6102-1964-6 * L & 7100024898 * L	
M23053/5-109-*	80-6102-2752-4 * L & 7100077869 * L	
M23053/5-110-*	80-6102-1976-0 * L & 7100026209 * L	
M23053/5-111-*	80-0002-0138-6 * L & 7010318524 * L	
M23053/5-112-*	80-6102-1985-1 * L & 7100025150 * L	
M23053/5-113-*	80-6102-1989-3 * L & 7100025151 * L	
M23053/5-114-*	80-6102-4018-8 * L & 7100029942 * L	
M23053/5-201-C	80-6102-1991-9 L & 7010320057 L	
M23053/5-202-C	80-6102-1992-7 L & 7100025158 L	
M23053/5-203-C	80-6102-1993-5 L & 7100020132 L	
M23053/5-204-C	80-6102-1994-3 L & 7100020161 L	
M23053/5-205-C	80-6102-1995-0 L & 7010396233 L	
M23053/5-206-C	80-6114-7239-2 L & 7000133496 L	
M23053/5-207-C	80-6102-1997-6 L & 7100020273 L	
M23053/5-208-C	80-6102-1998-4 L & 7100024932 L	
M23053/5-209-C	80-6102-1999-2 L & 7100020274 L	
M23053/5-210-C	80-6102-2000-8 L & 7100019710 L	
M23053/5-211-C	80-6102-2001-6 L & 7100025155 L	
M23053/5-212-C	80-6102-2002-4 L & 7100026347 L	
M23053/5-213-C	80-6102-4116-0 L & 7100025152 L	
M23053/5-214-C	80-6102-4120-2 L & 7100083169 L	
M23053/5-301-*	80-6106-4504-8 * L & 7010398499 * L	
M23053/5-302-*	80-6102-1930-7 * L & 7010320049 * L	
M23053/5-303-*	80-6102-1935-6 * L & 7010396208 * L	
M23053/5-304-*	80-6102-1941-4 * L & 7010297587 * L	
M23053/5-305-*	80-6102-1947-1 * L & 7010349733 * L	
M23053/5-306-*	80-6103-3558-2 * L & 7010320185 * L	
M23053/5-307-*	80-6102-1960-4 * L & 7100025735 * L	
M23053/5-308-*	80-6103-3559-0 * L & 7100024102 * L	
M23053/5-309-*	80-6102-1971-1 * L & 7010396223 * L	
M23053/5-310-*	80-6102-1977-8 * L & 7010320055 * L	
M23053/5-311-*	80-6102-3984-2 * L & 7010396264 * L	

* = COLOR SEE AS23053

L = VARIOUS LENGTHS AND SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
	TUBING (Spooled, 4 ft. lengths or bulk)	Alpha Wire Company
M23053/5-101-*	FIT-221, FIT-221V or FIT-221B 3/64"	11145803.AA/06-19-18
M23053/5-102-*	FIT-221, FIT-221V or FIT-221B 1/16"	
M23053/5-103-*	FIT-221, FIT-221V or FIT-221B 3/32"	
M23053/5-104-*	FIT-221, FIT-221V or FIT-221B 1/8"	
M23053/5-105-*	FIT-221, FIT-221V or FIT-221B 3/16"	
M23053/5-106-*	FIT-221, FIT-221V or FIT-221B 1/4"	
M23053/5-107-*	FIT-221, FIT-221V or FIT-221B 3/8"	
M23053/5-108-*	FIT-221, FIT-221V or FIT-221B 1/2"	
M23053/5-109-*	FIT-221, FIT-221V or FIT-221B 3/4"	
M23053/5-203-C	FIT-221 3/32"	
M23053/5-204-C	FIT-221 1/8"	
M23053/5-205-C	FIT-221 3/16"	
M23053/5-206-C	FIT-221 1/4"	
M23053/5-207-C	FIT-221 3/8"	
M23053/5-208-C	FIT-221 1/2"	
M23053/5-301-*	FIT-221, FIT-221V or FIT-221B 3/64"	
M23053/5-302-*	FIT-221, FIT-221V or FIT-221B 1/16"	
M23053/5-303-*	FIT-221, FIT-221V or FIT-221B 3/32"	
M23053/5-304-*	FIT-221, FIT-221V or FIT-221B 1/8"	
M23053/5-305-*	FIT-221, FIT-221V or FIT-221B 3/16"	
M23053/5-306-*	FIT-221, FIT-221V or FIT-221B 1/4"	
M23053/5-307-*	FIT-221, FIT-221V or FIT-221B 3/8"	
M23053/5-308-*	FIT-221, FIT-221V or FIT-221B 1/2"	
M23053/5-309-*	FIT-221, FIT-221V or FIT-221B 3/4"	

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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M23053/5-103-*	HX-C-094-*	Brady Worldwide 11146103.AA/02-01-19
M23053/5-104-*	HX-C-125-*	
M23053/5-105-*	HX-C-187-*	
M23053/5-106-*	HX-C-250-*	
M23053/5-107-*	HX-C-375-*	
M23053/5-108-*	HX-C-500-*	
M23053/5-109-*	HX-C-750-*	

M23053/5-303-*	HX-C-094-*
M23053/5-304-*	HX-C-125-*
M23053/5-305-*	HX-C-187-*
M23053/5-306-*	HX-C-250-*
M23053/5-307-*	HX-C-375-*
M23053/5-308-*	HX-C-500-*
M23053/5-309-*	HX-C-750-*

M23053/5-104-*	CNB-1635F-1/8"-*	CNB-Tek 11146303.AA/06-19-2018
M23053/5-105-*	CNB-1635F-3/16"-*	
M23053/5-106-*	CNB-1635F-1/4"-*	
M23053/5-107-*	CNB-1635F-3/8"-*	
M23053/5-108-*	CNB-1635F-1/2"-*	
M23053/5-109-*	CNB-1635F-3/4"-*	
M23053/5-110-*	CNB-1635F-1"-*	
M23053/5-111-*	CNB-1635F-1-1/2"-*	

M23053/5-304-*	CNB-1635F-1/8"-*
M23053/5-305-*	CNB-1635F-3/16"-*
M23053/5-306-*	CNB-1635F-1/4"-*
M23053/5-307-*	CNB-1635F-3/8"-*
M23053/5-308-*	CNB-1635F-1/2"-*
M23053/5-309-*	CNB-1635F-3/4"-*
M23053/5-310-*	CNB-1635F-1"-*
M23053/5-311-*	CNB-1635F-1-1/2"-*

* = COLOR SEE AS23053

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE	
M23053/5-101-*	DUNBAR 1635F-3/64"-* or DUNBAR QPL™-221-3/64"-*	Dunbar Products LLC 11148103.AA/06-19-18	
M23053/5-102-*	DUNBAR 1635F-1/16"-* or DUNBAR QPL™-221-1/16"-*		
M23053/5-103-*	DUNBAR 1635F-3/32"-* or DUNBAR QPL™-221-3/32"-*		
M23053/5-104-*	DUNBAR 1635F-1/8"-* or DUNBAR QPL™-221-1/8"-*		
M23053/5-105-*	DUNBAR 1635F-3/16"-* or DUNBAR QPL™-221-3/16"-*		
M23053/5-106-*	DUNBAR 1635F-1/4"-* or DUNBAR QPL™-221-1/4"-*		
M23053/5-107-*	DUNBAR 1635F-3/8"-* or DUNBAR QPL™-221-3/8"-*		
M23053/5-108-*	DUNBAR 1635F-1/2"-* or DUNBAR QPL™-221-1/2"-*		
M23053/5-109-*	DUNBAR 1635F-3/4"-* or DUNBAR QPL™-221-3/4"-*		
M23053/5-110-*	DUNBAR 1635F-1"-* or DUNBAR QPL™-221-1"-*		
M23053/5-111-*	DUNBAR 1635F-1-1/2"-* or DUNBAR QPL™-221-1-1/2"-*		
M23053/5-112-*	DUNBAR 1635F-2"-* or DUNBAR QPL™-221-2"-*		
M23053/5-113-*	DUNBAR 1635F-3"-* or DUNBAR QPL™-221-3"-*		
M23053/5-114-*	DUNBAR 1635F-4"-* or DUNBAR QPL™-221-4"-*		
M23053/5-201-C	DUNBAR 1635F-3/64"-C or DUNBAR QPL™-221-3/64"-C		
M23053/5-202-C	DUNBAR 1635F-1/16"-C or DUNBAR QPL™-221-1/16"-C		
M23053/5-203-C	DUNBAR 1635F-3/32"-C or DUNBAR QPL™-221-3/32"-C		
M23053/5-204-C	DUNBAR 1635F-1/8"-C or DUNBAR QPL™-221-1/8"-C		
M23053/5-205-C	DUNBAR 1635F-3/16"-C or DUNBAR QPL™-221-3/16"-C		
M23053/5-206-C	DUNBAR 1635F-1/4"-C or DUNBAR QPL™-221-1/4"-C		
M23053/5-207-C	DUNBAR 1635F-3/8"-C or DUNBAR QPL™-221-3/8"-C		
M23053/5-208-C	DUNBAR 1635F-1/2"-C or DUNBAR QPL™-221-1/2"-C		
M23053/5-209-C	DUNBAR 1635F-3/4"-C or DUNBAR QPL™-221-3/4"-C		
M23053/5-210-C	DUNBAR 1635F-1"-C or DUNBAR QPL™-221-1"-C		
M23053/5-211-C	DUNBAR 1635F-1-1/2"-C or DUNBAR QPL™-221-1-1/2"-C		
M23053/5-212-C	DUNBAR 1635F-2"-C or DUNBAR QPL™-221-2"-C		
M23053/5-213-C	DUNBAR 1635F-3"-C or DUNBAR QPL™-221-3"-C		
M23053/5-214-C	DUNBAR 1635F-4"-C or DUNBAR QPL™-221-4"-C		
M23053/5-301-*	DUNBAR 1635F-3/64"-* or DUNBAR QPL™-221-3/64"-*		
M23053/5-302-*	DUNBAR 1635F-1/16"-* or DUNBAR QPL™-221-1/16"-*		
M23053/5-303-*	DUNBAR 1635F-3/32"-* or DUNBAR QPL™-221-3/32"-*		
M23053/5-304-*	DUNBAR 1635F-1/8"-* or DUNBAR QPL™-221-1/8"-*		
M23053/5-305-*	DUNBAR 1635F-3/16"-* or DUNBAR QPL™-221-3/16"-*		
M23053/5-306-*	DUNBAR 1635F-1/4"-* or DUNBAR QPL™-221-1/4"-*		
M23053/5-307-*	DUNBAR 1635F-3/8"-* or DUNBAR QPL™-221-3/8"-*		
M23053/5-308-*	DUNBAR 1635F-1/2"-* or DUNBAR QPL™-221-1/2"-*		
M23053/5-309-*	DUNBAR 1635F-3/4"-* or DUNBAR QPL™-221-3/4"-*		
M23053/5-310-*	DUNBAR 1635F-1"-* or DUNBAR QPL™-221-1"-*		
M23053/5-311-*	DUNBAR 1635F-1-1/2"-* or DUNBAR QPL™-221-1-1/2"-*		
* = COLOR SEE AS23053	* = COLOR SEE AS23053		

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
	TUBING (Spooled or 4 ft. lengths)	Grayline LLC
M23053/5-101-*	SL2535 3/64"	11145903.AA/06-19-18
M23053/5-102-*	SL2535 1/16"	
M23053/5-103-*	SL2535 3/32"	
M23053/5-104-*	SL2535 1/8"	
M23053/5-105-*	SL2535 3/16"	
M23053/5-106-*	SL2535 1/4"	
M23053/5-107-*	SL2535 3/8"	
M23053/5-108-*	SL2535 1/2"	
M23053/5-109-*	SL2535 3/4"	
M23053/5-203-C	SL2535CL 3/32"	
M23053/5-204-C	SL2535CL 1/8"	
M23053/5-205-C	SL2535CL 3/16"	
M23053/5-206-C	SL2535CL 1/4"	
M23053/5-207-C	SL2535CL 3/8"	
M23053/5-208-C	SL2535CL 1/2"	
M23053/5-301-*	SL125 3/64"	
M23053/5-302-*	SL125 1/16"	
M23053/5-303-*	SL125 3/32"	
M23053/5-304-*	SL125 1/8"	
M23053/5-305-*	SL125 3/16"	
M23053/5-306-*	SL125 1/4"	
M23053/5-307-*	SL125 3/8"	
M23053/5-308-*	SL125 1/2"	
M23053/5-309-*	SL125 3/4"	

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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TUBING (Spooled)

Insultab, Inc.

11145503.AA/06-19-2018

M23053/5-101-*	HS-101 3/64"
M23053/5-102-*	HS-101 1/16"
M23053/5-103-*	HS-101 3/32"
M23053/5-104-*	HS-101 1/8"
M23053/5-105-*	HS-101 3/16"
M23053/5-106-*	HS-101 1/4"
M23053/5-107-*	HS-101 3/8"
M23053/5-108-*	HS-101 1/2"
M23053/5-109-*	HS-101 3/4"

TUBING (Spooled or 4 ft. lengths)

M23053/5-203-C	HS-101 3/32"
M23053/5-204-C	HS-101 1/8"
M23053/5-205-C	HS-101 3/16"
M23053/5-206-C	HS-101 1/4"
M23053/5-207-C	HS-101 3/8"
M23053/5-208-C	HS-101 1/2"

M23053/5-301-*	HS-101 3/64"
M23053/5-302-*	HS-101 1/16"
M23053/5-303-*	HS-101 3/32"
M23053/5-304-*	HS-101 1/8"
M23053/5-305-*	HS-101 3/16"
M23053/5-306-*	HS-101 1/4"
M23053/5-307-*	HS-101 3/8"
M23053/5-308-*	HS-101 1/2"
M23053/5-309-*	HS-101 3/4"

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	GSHS-1635F-3/64-*	LS Cable & System 11144903.AA/06-19-18
M23053/5-102-*	GSHS-1635F-1/16-*	
M23053/5-103-*	GSHS-1635F-3/32-*	
M23053/5-104-*	GSHS-1635F-1/8-*	
M23053/5-105-*	GSHS-1635F-3/16-*	
M23053/5-106-*	GSHS-1635F-1/4-*	
M23053/5-107-*	GSHS-1635F-3/8-*	
M23053/5-108-*	GSHS-1635F-1/2-*	
M23053/5-109-*	GSHS-1635F-3/4-*	
M23053/5-110-*	GSHS-1635F-1-*	
M23053/5-111-*	GSHS-1635F-1-1/2-*	
M23053/5-112-*	GSHS-1635F-2-*	
M23053/5-113-*	GSHS-1635F-3-*	
M23053/5-114-*	GSHS-1635F-4-*	
M23053/5-201-C	GSHS-1635F-3/64-C	
M23053/5-202-C	GSHS-1635F-1/16-C	
M23053/5-203-C	GSHS-1635F-3/32-C	
M23053/5-204-C	GSHS-1635F-1/8-C	
M23053/5-205-C	GSHS-1635F-3/16-C	
M23053/5-206-C	GSHS-1635F-1/4-C	
M23053/5-207-C	GSHS-1635F-3/8-C	
M23053/5-208-C	GSHS-1635F-1/2-C	
M23053/5-209-C	GSHS-1635F-3/4-C	
M23053/5-210-C	GSHS-1635F-1-C	
M23053/5-211-C	GSHS-1635F-1-1/2-C	
M23053/5-212-C	GSHS-1635F-2-C	
M23053/5-213-C	GSHS-1635F-3-C	
M23053/5-214-C	GSHS-1635F-4-C	
M23053/5-301-*	GSHS-1635F-3/64-*	
M23053/5-302-*	GSHS-1635F-1/16-*	
M23053/5-303-*	GSHS-1635F-3/32-*	
M23053/5-304-*	GSHS-1635F-1/8-*	
M23053/5-305-*	GSHS-1635F-3/16-*	
M23053/5-306-*	GSHS-1635F-1/4-*	
M23053/5-307-*	GSHS-1635F-3/8-*	
M23053/5-308-*	GSHS-1635F-1/2-*	
M23053/5-309-*	GSHS-1635F-3/4-*	
M23053/5-310-*	GSHS-1635F-1-*	
M23053/5-311-*	GSHS-1635F-1-1/2-*	

* = COLOR SEE AS23053

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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BULK TUBING (SPOOLED)

M23053/5-101-*	Sumitube B2 3/64"	Sumitomo Electric 11122703.AA/06-19-18
M23053/5-102-*	Sumitube B2 1/16"	
M23053/5-103-*	Sumitube B2 3/32"	
M23053/5-104-*	Sumitube B2 1/8"	
M23053/5-105-*	Sumitube B2 3/16"	
M23053/5-106-*	Sumitube B2 1/4"	
M23053/5-107-*	Sumitube B2 3/8"	
M23053/5-108-*	Sumitube B2 1/2"	
M23053/5-109-*	Sumitube B2 3/4"	

MARKER SLEEVE CONTINUOUS TUBING FOR SUMIMARK PRINTERS

M23053/5-101-*	Sumimark SM3-12-3/64"
M23053/5-102-*	Sumimark SM3-12 -1/16"
M23053/5-103-*	Sumimark SM3-12 3/32"
M23053/5-104-*	Sumimark SM3-12 1/8"
M23053/5-105-*	Sumimark SM3-12 3/16"
M23053/5-106-*	Sumimark SM3-12 1/4"
M23053/5-107-*	Sumimark SM3-12 3/8"
M23053/5-108-*	Sumimark SM3-12 1/2"
M23053/5-109-*	Sumimark SM3-12 3/4"

****MARKER SLEEVE CONTINUOUS TUBING FOR SUMITAG PRINTERS**

M23053/5-101-*	HPC-1/16-*-30M -SPL-2X
M23053/5-102-*	HPC-3/32-*-30M -SPL-2X
M23053/5-103-*	HPC-1/8-*-30M -SPL-2X
M23053/5-104-*	HPC-3/16-*-30M -SPL-2X
M23053/5-105-*	HPC-1/4-*-30M -SPL-2X
M23053/5-106-*	HPC-3/8-*-30M -SPL-2X
M23053/5-107-*	HPC-1/2-*-30M -SPL-2X
M23053/5-108-*	HPC-3/4-*-30M -SPL-2X
M23053/5-109-*	HPC-1/16-*-30M -SPL-2X

* = COLOR SEE AS23053

**SUMITAG HPC SERIES PRODUCTS ARE SOLD AS 30 METER LENGTHS ON SPOOLS ONLY.

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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BULK TUBING (SPOOLED)

M23053/5-203-C	Sumitube A2 3/32"	Sumitomo Electric 11122703.AA/06-19-18
M23053/5-204-C	Sumitube A2 1/8"	
M23053/5-205-C	Sumitube A2 3/16"	
M23053/5-206-C	Sumitube A2 1/4"	
M23053/5-207-C	Sumitube A2 3/8"	
M23053/5-208-C	Sumitube A2 1/2"	

MARKER SLEEVE CONTINUOUS TUBING FOR SUMIMARK PRINTERS

M23053/5-202-C	Sumimark SM3-13 -1/16"
M23053/5-203-C	Sumimark SM3-13 3/32"
M23053/5-204-C	Sumimark SM3-13 1/8"
M23053/5-205-C	Sumimark SM3-13 3/16"
M23053/5-206-C	Sumimark SM3-13 1/4"
M23053/5-207-C	Sumimark SM3-13 3/8"
M23053/5-208-C	Sumimark SM3-13 1/2"
M23053/5-209-C	Sumimark SM3-13 3/4"

BULK TUBING (SPOOLED)

M23053/5-301-*	Sumitube B2 3/64"
M23053/5-302-*	Sumitube B2 1/16"
M23053/5-303-*	Sumitube B2 3/32"
M23053/5-304-*	Sumitube B2 1/8"
M23053/5-305-*	Sumitube B2 3/16"
M23053/5-306-*	Sumitube B2 1/4"
M23053/5-307-*	Sumitube B2 3/8"
M23053/5-308-*	Sumitube B2 1/2"
M23053/5-309-*	Sumitube B2 3/4"

* = COLOR SEE AS23053

C = CLEAR

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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	***MARKER SLEEVE CONTINUOUS TUBING FOR SUMIMARK PRINTERS	Sumitomo Electric 11122703.AA/06-19-18
M23053/5-301-*	Sumimark SM3-12-3/64"	
M23053/5-302-*	Sumimark SM3-12 -1/16"	
M23053/5-303-*	Sumimark SM3-12 3/32"	
M23053/5-304-*	Sumimark SM3-12 1/8"	
M23053/5-305-*	Sumimark SM3-12 3/16"	
M23053/5-306-*	Sumimark SM3-12 1/4"	
M23053/5-307-*	Sumimark SM3-12 3/8"	
M23053/5-308-*	Sumimark SM3-12 1/2"	
M23053/5-309-*	Sumimark SM3-12 3/4"	

	**MARKER SLEEVE CONTINUOUS TUBING FOR SUMITAG PRINTERS	
M23053/5-302-*	HPC-1/16-*-30M -SPL-2X	
M23053/5-303-*	HPC-3/32-*-30M -SPL-2X	
M23053/5-304-*	HPC-1/8-*-30M -SPL-2X	
M23053/5-305-*	HPC-3/16-*-30M -SPL-2X	
M23053/5-306-*	HPC-1/4-*-30M -SPL-2X	
M23053/5-307-*	HPC-3/8-*-30M -SPL-2X	
M23053/5-308-*	HPC-1/2-*-30M -SPL-2X	
M23053/5-309-*	HPC-3/4-*-30M -SPL-2X	

* = COLOR SEE AS23053

****SUMITAG HPC SERIES PRODUCTS ARE SOLD AS 30 METER LENGTHS ON SPOOLS ONLY.**

***** SUMIMARK TUBING AVAILABLE ON SPOOLS ONLY.**

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	Sumitube B2 3/64"	Sumitomo Electric - Germany 11148403.AA/02-01-19
M23053/5-102-*	Sumitube B2 1/16"	
M23053/5-103-*	Sumitube B2 3/32"	
M23053/5-104-*	Sumitube B2 1/8"	
M23053/5-105-*	Sumitube B2 3/16"	
M23053/5-106-*	Sumitube B2 1/4"	
M23053/5-107-*	Sumitube B2 3/8"	
M23053/5-108-*	Sumitube B2 1/2"	
M23053/5-109-*	Sumitube B2 3/4"	
M23053/5-110-*	Sumitube B2 1"	
M23053/5-101-*	Sumitube B20 3/64"	
M23053/5-102-*	Sumitube B20 1/16"	
M23053/5-103-*	Sumitube B20 3/32"	
M23053/5-104-*	Sumitube B20 1/8"	
M23053/5-105-*	Sumitube B20 3/16"	
M23053/5-106-*	Sumitube B20 1/4"	
M23053/5-107-*	Sumitube B20 3/8"	
M23053/5-108-*	Sumitube B20 1/2"	
M23053/5-109-*	Sumitube B20 3/4"	
M23053/5-110-*	Sumitube B20 1"	
M23053/5-301-*	Sumitube B2 3/64"	
M23053/5-302-*	Sumitube B2 1/16"	
M23053/5-303-*	Sumitube B2 3/32"	
M23053/5-304-*	Sumitube B2 1/8"	
M23053/5-305-*	Sumitube B2 3/16"	
M23053/5-306-*	Sumitube B2 1/4"	
M23053/5-307-*	Sumitube B2 3/8"	
M23053/5-308-*	Sumitube B2 1/2"	
M23053/5-309-*	Sumitube B2 3/4"	
M23053/5-310-*	Sumitube B2 1"	

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	Sumitube B2 3/64"	Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/5-102-*	Sumitube B2 1/16"	
M23053/5-103-*	Sumitube B2 3/32"	
M23053/5-104-*	Sumitube B2 1/8"	
M23053/5-105-*	Sumitube B2 3/16"	
M23053/5-106-*	Sumitube B2 1/4"	
M23053/5-107-*	Sumitube B2 3/8"	
M23053/5-108-*	Sumitube B2 1/2"	
M23053/5-109-*	Sumitube B2 3/4"	
M23053/5-110-*	Sumitube B2 1"	
M23053/5-111-*	Sumitube B2 1 1/2"	
M23053/5-112-*	Sumitube B2 2"	
M23053/5-113-*	Sumitube B2 3"	
M23053/5-114-*	Sumitube B2 4"	

**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/5-101-*	Sumimark SM3-12 3/64"
M23053/5-102-*	Sumimark SM3-12 1/16"
M23053/5-103-*	Sumimark SM3-12 3/32"
M23053/5-104-*	Sumimark SM3-12 1/8"
M23053/5-105-*	Sumimark SM3-12 3/16"
M23053/5-106-*	Sumimark SM3-12 1/4"
M23053/5-107-*	Sumimark SM3-12 3/8"
M23053/5-108-*	Sumimark SM3-12 1/2"
M23053/5-109-*	Sumimark SM3-12 3/4"
M23053/5-110-*	Sumimark SM3-12 1"
M23053/5-111-*	Sumimark SM3-12 1 1/2"
M23053/5-112-*	Sumimark SM3-12 2"

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	Sumitube B20 3/64"	Sumitomo Electric – Japan 11148303.AA/02-01-19 (Continued)
M23053/5-102-*	Sumitube B20 1/16"	
M23053/5-103-*	Sumitube B20 3/32"	
M23053/5-104-*	Sumitube B20 1/8"	
M23053/5-105-*	Sumitube B20 3/16"	
M23053/5-106-*	Sumitube B20 1/4"	
M23053/5-107-*	Sumitube B20 3/8"	
M23053/5-108-*	Sumitube B20 1/2"	
M23053/5-109-*	Sumitube B20 3/4"	
M23053/5-110-*	Sumitube B20 1"	
M23053/5-111-*	Sumitube B20 1 1/2"	
M23053/5-112-*	Sumitube B20 2"	
M23053/5-113-*	Sumitube B20 3"	
M23053/5-114-*	Sumitube B20 4"	

MARKER SLEEVE CONTINUOUS TUBING FOR SUMITAG PRINTERS

inch / (metric sizes)

M23053/5-102-*	HPC-1/16"-**-30M-SPL-2X / (HPC-016-30M-**-2X)
M23053/5-103-*	HPC- 3/32"-**-30M-SPL-2X / (HPC-024-30M-**-2X)
M23053/5-104-*	HPC-1/8"-**-30M-SPL-2X / (HPC-032-30M-**-2X)
M23053/5-105-*	HPC-3/16"-**-30M-SPL-2X / (HPC-048-30M-**-2X)
M23053/5-106-*	HPC-1/4"-**-30M-SPL-2X / (HPC-064-30M-**-2X)
M23053/5-107-*	HPC-3/8"-**-30M-SPL-2X / (HPC-095-30M-**-2X)
M23053/5-108-*	HPC-1/2"-**-30M-SPL-2X / (HPC-127-30M-**-2X)
M23053/5-109-*	HPC-3/4"-**-30M-SPL-2X / (HPC-191-30M-**-2X)
M23053/5-110-*	HPC-1"-**-20M-SPL-2X / (HPC-254-20M-**-2X)
M23053/5-111-*	HPC-1.5"-**-20M-SPL-2X / (HPC-381-20M-**-2X)
M23053/5-112-*	HPC-2"-**-15M-SPL-2X / (HPC-508-15M-**-2X)

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMITAG PRINTERS**

M23053/5-102-*
M23053/5-103-*
M23053/5-104-*
M23053/5-105-*
M23053/5-106-*
M23053/5-107-*
M23053/5-108-*
M23053/5-109-*
M23053/5-110-*
M23053/5-111-*
M23053/5-112-*

MIL-016-30M-**-2X
MIL-024-30M-**-2X
MIL-032-30M-**-2X
MIL-048-30M-**-2X
MIL-064-30M-**-2X
MIL-095-30M-**-2X
MIL-127-30M-**-2X
MIL-191-30M-**-2X
MIL-254-20M-**-2X
MIL-381-20M-**-2X
MIL-508-15M-**-2X

Sumitomo Electric – Japan
11148303.AA/02-01-19
(Continued)

M23053/5-115-*
M23053/5-116-*
M23053/5-117-*
M23053/5-119-*
M23053/5-121-*

Sumitube B2(4XC) 1"
Sumitube B2(4XC) 2"
Sumitube B2(4XC) 3"
Sumitube B2(4XC) 1 1/2"
Sumitube B2(4XC) 3"

**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/5-115-*
M23053/5-116-*
M23053/5-119-*

Sumimark SM3-41 1"
Sumimark SM3-41 2"
Sumimark SM3-41 1 1/2"

M23053/5-201-C
M23053/5-202-C
M23053/5-203-C
M23053/5-204-C
M23053/5-205-C
M23053/5-206-C
M23053/5-207-C
M23053/5-208-C
M23053/5-209-C
M23053/5-210-C
M23053/5-211-C
M23053/5-212-C
M23053/5-213-C
M23053/5-214-C

Sumitube A2 3/64"
Sumitube A2 1/16"
Sumitube A2 3/32"
Sumitube A2 1/8"
Sumitube A2 3/16"
Sumitube A2 1/4"
Sumitube A2 3/8"
Sumitube A2 1/2"
Sumitube A2 3/4"
Sumitube A2 1"
Sumitube A2 1 1/2"
Sumitube A2 2"
Sumitube A2 3"
Sumitube A2 4"

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

Sumitomo Electric – Japan
11148303.AA/02-01-19
(Continued)

M23053/5-202-C	Sumimark SM3-13 1/16"
M23053/5-203-C	Sumimark SM3-13 3/32"
M23053/5-204-C	Sumimark SM3-13 1/8"
M23053/5-205-C	Sumimark SM3-13 3/16"
M23053/5-206-C	Sumimark SM3-13 1/4"
M23053/5-207-C	Sumimark SM3-13 3/8"
M23053/5-208-C	Sumimark SM3-13 1/2"
M23053/5-209-C	Sumimark SM3-13 3/4"
M23053/5-210-C	Sumimark SM3-13 1"
M23053/5-211-C	Sumimark SM3-13 1 1/2"

**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMITAG PRINTERS**

M23053/5-202-C	MIL-016-30M-TR-2X
M23053/5-203-C	MIL-024-30M-TR-2X
M23053/5-204-C	MIL-032-30M-TR-2X
M23053/5-205-C	MIL-048-30M-TR-2X
M23053/5-206-C	MIL-064-30M-TR-2X
M23053/5-207-C	MIL-095-30M-TR-2X
M23053/5-208-C	MIL-127-30M-TR-2X
M23053/5-209-C	MIL-191-30M-TR-2X
M23053/5-210-C	MIL-254-20M-TR-2X
M23053/5-211-C	MIL-381-20M-TR-2X
M23053/5-212-C	MIL-508-15M-TR-2X

M23053/5-301-*	Sumitube B2 3/64"
M23053/5-302-*	Sumitube B2 1/16"
M23053/5-303-*	Sumitube B2 3/32"
M23053/5-304-*	Sumitube B2 1/8"
M23053/5-305-*	Sumitube B2 3/16"
M23053/5-306-*	Sumitube B2 1/4"
M23053/5-307-*	Sumitube B2 3/8"
M23053/5-308-*	Sumitube B2 1/2"
M23053/5-309-*	Sumitube B2 3/4"
M23053/5-310-*	Sumitube B2 1"
M23053/5-311-*	Sumitube B2 1 1/2"

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/5-301-*
M23053/5-302-*
M23053/5-303-*
M23053/5-304-*
M23053/5-305-*
M23053/5-306-*
M23053/5-307-*
M23053/5-308-*
M23053/5-309-*
M23053/5-310-*
M23053/5-311-*

Sumimark SM3-12 3/64"
Sumimark SM3-12 1/16"
Sumimark SM3-12 3/32"
Sumimark SM3-12 1/8"
Sumimark SM3-12 3/16"
Sumimark SM3-12 1/4"
Sumimark SM3-12 3/8"
Sumimark SM3-12 1/2"
Sumimark SM3-12 3/4"
Sumimark SM3-12 1"
Sumimark SM3-12 1 1/2"

Sumitomo Electric – Japan
11148303.AA/02-01-19
(Continued)

**MARKER SLEEVE CONTINUOUS TUBING FOR
SUMITAG PRINTERS
inch / (metric sizes)**

M23053/5-302-*
M23053/5-303-*
M23053/5-304-*
M23053/5-305-*
M23053/5-306-*
M23053/5-307-*
M23053/5-308-*
M23053/5-309-*
M23053/5-310-*
M23053/5-311-*

HPC-1/16"-**-30M-SPL-2X / (HPC-016-30M-**-2X)
HPC- 3/32"-**-30M-SPL-2X / (HPC-024-30M-**-2X)
HPC-1/8"-**-30M-SPL-2X / (HPC-032-30M-**-2X)
HPC-3/16"-**-30M-SPL-2X / (HPC-048-30M-**-2X)
HPC-1/4"-**-30M-SPL-2X / (HPC-064-30M-**-2X)
HPC-3/8"-**-30M-SPL-2X / (HPC-095-30M-**-2X)
HPC-1/2"-**-30M-SPL-2X / (HPC-127-30M-**-2X)
HPC-3/4"-**-30M-SPL-2X / (HPC-191-30M-**-2X)
HPC-1"-**-20M-SPL-2X / (HPC-254-20M-**-2X)
HPC-1.5"-**-20M-SPL-2X / (HPC-381-20M-**-2X)

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE CONTINUOUS
TUBING FOR SUMITAG PRINTERS**

M23053/5-302-*	MIL-016-30M-**-2X	
M23053/5-303-*	MIL-024-30M-**-2X	
M23053/5-304-*	MIL-032-30M-**-2X	
M23053/5-305-*	MIL-048-30M-**-2X	
M23053/5-306-*	MIL-064-30M-**-2X	
M23053/5-307-*	MIL-095-30M-**-2X	
M23053/5-308-*	MIL-127-30M-**-2X	
M23053/5-309-*	MIL-191-30M-**-2X	
M23053/5-310-*	MIL-254-20M-**-2X	
M23053/5-311-*	MIL-381-20M-**-2X	
M23053/5-312-*	MIL-508-15M-**-2X	

* = COLOR SEE AS23053

**color codes

SUMITAG PRODUCTS ARE SOLD AS 15 METER, 20METER LENGTHS ON SPOOL ONLY

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	Sumitube B2 3/64"	Sumi-Pac Corporation 11148703.AA/02-01-19
M23053/5-102-*	Sumitube B2 1/16"	
M23053/5-103-*	Sumitube B2 3/32"	
M23053/5-104-*	Sumitube B2 1/8"	
M23053/5-105-*	Sumitube B2 3/16"	
M23053/5-106-*	Sumitube B2 1/4"	
M23053/5-107-*	Sumitube B2 3/8"	
M23053/5-108-*	Sumitube B2 1/2"	
M23053/5-109-*	Sumitube B2 3/4"	
M23053/5-110-*	Sumitube B2 1"	
BULK TUBING		
M23053/5-201-*	Sumitube A2 3/64"	
M23053/5-202-*	Sumitube A2 1/16"	
M23053/5-203-*	Sumitube A2 3/32"	
M23053/5-204-*	Sumitube A2 1/8"	
M23053/5-205-*	Sumitube A2 3/16"	
M23053/5-206-*	Sumitube A2 1/4"	
M23053/5-207-*	Sumitube A2 3/8"	
M23053/5-208-*	Sumitube A2 1/2"	
M23053/5-209-*	Sumitube A2 3/4"	
M23053/5-210-*	Sumitube A2 1"	
M23053/5-301-*	Sumitube B2 3/64"	
M23053/5-302-*	Sumitube B2 1/16"	
M23053/5-303-*	Sumitube B2 3/32"	
M23053/5-304-*	Sumitube B2 1/8"	
M23053/5-305-*	Sumitube B2 3/16"	
M23053/5-306-*	Sumitube B2 1/4"	
M23053/5-307-*	Sumitube B2 3/8"	
M23053/5-308-*	Sumitube B2 1/2"	
M23053/5-309-*	Sumitube B2 3/4"	
M23053/5-310-*	Sumitube B2 1"	

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	RNF-100-3/64-*-L	TE Connectivity- CA 11120203.AA/06-19-18
M23053/5-102-*	RNF-100-1/16-*-L	
M23053/5-103-*	RNF-100-3/32-*-L	
M23053/5-104-*	RNF-100-1/8-*-L	
M23053/5-105-*	RNF-100-3/16-*-L	
M23053/5-106-*	RNF-100-1/4-*-L	
M23053/5-107-*	RNF-100-3/8-*-L	
M23053/5-108-*	RNF-100-1/2-*-L	
M23053/5-109-*	RNF-100-3/4-*-L	
M23053/5-110-*	RNF-100-1-*-L	
M23053/5-111-*	RNF-100-1-1/2-*-L	
M23053/5-112-*	RNF-100-2-*-L	
M23053/5-113-*	RNF-100-3-*-L	
M23053/5-114-*	RNF-100-4-*-L	

* = COLOR SEE AS23053

* = COLOR

L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

M23053/5-101-*	VERSAFIT-3/64-*-L
M23053/5-102-*	VERSAFIT-1/16-*-L
M23053/5-103-*	VERSAFIT-3/32-*-L
M23053/5-104-*	VERSAFIT-1/8-*-L
M23053/5-105-*	VERSAFIT-3/16-*-L
M23053/5-106-*	VERSAFIT-1/4-*-L
M23053/5-107-*	VERSAFIT-3/8-*-L
M23053/5-108-*	VERSAFIT-1/2-*-L
M23053/5-109-*	VERSAFIT-3/4-*-L
M23053/5-110-*	VERSAFIT-1-*-L
M23053/5-111-*	VERSAFIT-1-1/2-*-L
M23053/5-112-*	VERSAFIT-2-*-L
M23053/5-113-*	VERSAFIT-3-*-L
M23053/5-114-*	VERSAFIT-4-*-L

* = COLOR SEE AS23053

* = COLOR

L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-115-*	RP-4800-NO. 1-* -L	TE Connectivity- CA 11120203.AA/06-19-18
M23053/5-116-*	RP-4800-NO. 2-* -L	
M23053/5-117-*	RP-4800-NO. 3-* -L	
M23053/5-118-*	RP-4800-NO. 4-* -L	
M23053/5-119-*	RP-4800-NO. 5-* -L	
M23053/5-120-*	RP-4800-NO. 6-* -L	
M23053/5-121-*	RP-4800-NO. 7-* -L	
M23053/5-122-*	RP-4800-NO. 8-* -L	
M23053/5-123-*	RP-4800-NO. 9-* -L	
M23053/5-201-C	RNF-100-3/64-CL-L	
M23053/5-202-C	RNF-100-1/16-CL-L	
M23053/5-203-C	RNF-100-3/32-CL-L	
M23053/5-204-C	RNF-100-1/8-CL-L	
M23053/5-205-C	RNF-100-3/16-CL-L	
M23053/5-206-C	RNF-100-1/4-CL-L	
M23053/5-207-C	RNF-100-3/8-CL-L	
M23053/5-208-C	RNF-100-1/2-CL-L	
M23053/5-209-C	RNF-100-3/4-CL-L	
M23053/5-210-C	RNF-100-1-CL-L	
M23053/5-211-C	RNF-100-1-1/2-CL-L	
M23053/5-212-C	RNF-100-2-CL-L	
M23053/5-213-C	RNF-100-3-CL-L	
M23053/5-214-C	RNF-100-4-CL-L	
M23053/5-301-*	VERSAFIT-3/64-* -L	
M23053/5-302-*	VERSAFIT-1/16-* -L	
M23053/5-303-*	VERSAFIT-3/32-* -L	
M23053/5-304-*	VERSAFIT-1/8-* -L	
M23053/5-305-*	VERSAFIT-3/16-* -L	
M23053/5-306-*	VERSAFIT-1/4-* -L	
M23053/5-307-*	VERSAFIT-3/8-* -L	
M23053/5-308-*	VERSAFIT-1/2-* -L	
M23053/5-309-*	VERSAFIT-3/4-* -L	
M23053/5-310-*	VERSAFIT-1-* -L	
M23053/5-311-*	VERSAFIT-1-1/2-* -L	

* = COLOR SEE AS23053
C = CLEAR

* = COLOR
L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS
CL = CLEAR

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-101-*	RNF-100-3/64-*-L	TE Connectivity- Czech Republic 11120203.AD/06-19-18
M23053/5-102-*	RNF-100-1/16-*-L	
M23053/5-103-*	RNF-100-3/32-*-L	
M23053/5-104-*	RNF-100-1/8-*-L	
M23053/5-105-*	RNF-100-3/16-*-L	
M23053/5-106-*	RNF-100-1/4-*-L	
M23053/5-107-*	RNF-100-3/8-*-L	
M23053/5-108-*	RNF-100-1/2-*-L	
M23053/5-109-*	RNF-100-3/4-*-L	
M23053/5-110-*	RNF-100-1-*-L	
M23053/5-111-*	RNF-100-1-1/2-*-L	
M23053/5-112-*	RNF-100-2-*-L	
M23053/5-113-*	RNF-100-3-*-L	
M23053/5-114-*	RNF-100-4-*-L	

* = COLOR SEE AS23053

* = COLOR

L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

M23053/5-101-*	VERSAFIT-3/64-*-L	TE Connectivity- Czech Republic 11120203.AD/06-19-18
M23053/5-102-*	VERSAFIT-1/16-*-L	
M23053/5-103-*	VERSAFIT-3/32-*-L	
M23053/5-104-*	VERSAFIT-1/8-*-L	
M23053/5-105-*	VERSAFIT-3/16-*-L	
M23053/5-106-*	VERSAFIT-1/4-*-L	
M23053/5-107-*	VERSAFIT-3/8-*-L	
M23053/5-108-*	VERSAFIT-1/2-*-L	
M23053/5-109-*	VERSAFIT-3/4-*-L	
M23053/5-110-*	VERSAFIT-1-*-L	
M23053/5-111-*	VERSAFIT-1-1/2-*-L	
M23053/5-112-*	VERSAFIT-2-*-L	
M23053/5-113-*	VERSAFIT-3-*-L	
M23053/5-114-*	VERSAFIT-4-*-L	

* = COLOR SEE AS23053

* = COLOR

L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/5-115-*	RP-4800-NO. 1-* -L	TE Connectivity- Czech Republic 11120203.AD/06-19-18
M23053/5-116-*	RP-4800-NO. 2-* -L	
M23053/5-117-*	RP-4800-NO. 3-* -L	
M23053/5-118-*	RP-4800-NO. 4-* -L	
M23053/5-119-*	RP-4800-NO. 5-* -L	
M23053/5-120-*	RP-4800-NO. 6-* -L	
M23053/5-121-*	RP-4800-NO. 7-* -L	
M23053/5-122-*	RP-4800-NO. 8-* -L	
M23053/5-123-*	RP-4800-NO. 9-* -L	
M23053/5-201-C	RNF-100-3/64-CL-L	
M23053/5-202-C	RNF-100-1/16-CL-L	
M23053/5-203-C	RNF-100-3/32-CL-L	
M23053/5-204-C	RNF-100-1/8-CL-L	
M23053/5-205-C	RNF-100-3/16-CL-L	
M23053/5-206-C	RNF-100-1/4-CL-L	
M23053/5-207-C	RNF-100-3/8-CL-L	
M23053/5-208-C	RNF-100-1/2-CL-L	
M23053/5-209-C	RNF-100-3/4-CL-L	
M23053/5-210-C	RNF-100-1-CL-L	
M23053/5-211-C	RNF-100-1-1/2-CL-L	
M23053/5-212-C	RNF-100-2-CL-L	
M23053/5-213-C	RNF-100-3-CL-L	
M23053/5-214-C	RNF-100-4-CL-L	
M23053/5-301-*	VERSAFIT-3/64-* -L	
M23053/5-302-*	VERSAFIT-1/16-* -L	
M23053/5-303-*	VERSAFIT-3/32-* -L	
M23053/5-304-*	VERSAFIT-1/8-* -L	
M23053/5-305-*	VERSAFIT-3/16-* -L	
M23053/5-306-*	VERSAFIT-1/4-* -L	
M23053/5-307-*	VERSAFIT-3/8-* -L	
M23053/5-308-*	VERSAFIT-1/2-* -L	
M23053/5-309-*	VERSAFIT-3/4-* -L	
M23053/5-310-*	VERSAFIT-1-* -L	
M23053/5-311-*	VERSAFIT-1-1/2-* -L	

* = COLOR SEE AS23053
C = CLEAR

* = COLOR
L = STK FOR 4 FOOT LENGTH
SP FOR SPOOLS
CL = CLEAR

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**SAE-AS23053/6, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE,
POLYOLEFIN, SEMI-RIGID, CROSSLINKED**

M23053/6-101-*	CRN-3/64-MS-*L	TE Connectivity- CA
M23053/6-102-*	CRN-1/16-MS-*L	11120203.AA/06-19-18
M23053/6-103-*	CRN-3/32-MS-*L	
M23053/6-104-*	CRN-1/8-*L	
M23053/6-105-*	CRN-3/16-*L	
M23053/6-106-*	CRN-1/4-*L	
M23053/6-107-*	CRN-3/8-*L	
M23053/6-108-*	CRN-1/2-*L	
M23053/6-201-C	CRN-3/64-X-L	
M23053/6-202-C	CRN-1/16-X-L	
M23053/6-203-C	CRN-3/32-X-L	
M23053/6-204-C	CRN-1/8-X-L	
M23053/6-205-C	CRN-3/16-X-L	
M23053/6-206-C	CRN-1/4-X-L	
M23053/6-207-C	CRN-3/8-X-L	
M23053/6-208-C	CRN-1/2-X-L	

* = COLOR SEE AS23053
C = CLEAR

L = STK FOR 4 FOOT LENGTHS
SP FOR SPOOLS

* = COLOR
X = CLEAR

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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SAE-AS23053/8, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, POLYVINYLIDENE FLUORIDE, SEMIRIGID, CROSSLINKED

M23053/8-001-C	80-6102-4447-9 L & 7010396273 L	3M Company
M23053/8-002-C	80-6106-4541-0 L & 7010396478 L	11146003.AA/06-19-2018
M23053/8-003-C	80-6102-6115-0 L & 7010349890 L	
M23053/8-004-C	80-6116-0189-1 L & 7000133620 L	
M23053/8-005-C	80-6102-4466-9 L & 7010349772 L	
M23053/8-006-C	80-6102-4472-7 L & 7010396274 L	
M23053/8-007-C	80-6102-4479-2 L & 7010320071 L	
M23053/8-008-C	80-6106-4735-8 L & 7010349976 L	
M23053/8-009-C	80-6102-4486-7 L & 7010396275 L	
M23053/8-010-C	80-6116-0066-1 L & 7010290998 L	

C = CLEAR SEE AS23053

L = VARIOUS LENGTHS AND SPOOLS

M23053/8-001-C	DUNBAR 1675-3/64"-C or DUNBAR QPL™-175-3/64"-C	Dunbar Products LLC
M23053/8-002-C	DUNBAR 1675-1/16"-C or DUNBAR QPL™-175-1/16"-C	11148103.AA/06-19-18
M23053/8-003-C	DUNBAR 1675-3/32"-C or DUNBAR QPL™-175-3/32"-C	
M23053/8-004-C	DUNBAR 1675-1/8"-C or DUNBAR QPL™-175-1/8"-C	
M23053/8-005-C	DUNBAR 1675-3/16"-C or DUNBAR QPL™-175-3/16"-C	
M23053/8-006-C	DUNBAR 1675-1/4"-C or DUNBAR QPL™-175-1/4"-C	
M23053/8-007-C	DUNBAR 1675-3/8"-C or DUNBAR QPL™-175-3/8"-C	
M23053/8-008-C	DUNBAR 1675-1/2"-C or DUNBAR QPL™-175-1/2"-C	
M23053/8-009-C	DUNBAR 1675-3/4"-C or DUNBAR QPL™-175-3/4"-C	
M23053/8-010-C	DUNBAR 1675-1"-C or DUNBAR QPL™-175-1"-C	
M23053/8-011-C	DUNBAR 1675-1-1/2"-C or DUNBAR QPL™-175-1-1/2"-C	

C = CLEAR
SEE AS23053

C = CLEAR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/8-001-C	GSHS-1675-3/64"-C	LS Cable & System
M23053/8-002-C	GSHS-1675-1/16"-C	11144903.AA/06-19-18
M23053/8-003-C	GSHS-1675-3/32"-C	
M23053/8-004-C	GSHS-1675-1/8"-C	
M23053/8-005-C	GSHS-1675-3/16"-C	
M23053/8-006-C	GSHS-1675-1/4"-C	
M23053/8-007-C	GSHS-1675-3/8"-C	
M23053/8-008-C	GSHS-1675-1/2"-C	
M23053/8-009-C	GSHS-1675-3/4"-C	
M23053/8-010-C	GSHS-1675-1"-C	
M23053/8-011-C	GSHS-1675-1-1/2"-C	

C = CLEAR SEE AS23053

C = CLEAR SEE AS23053

M23053/8-001-C	Sumitube K 3/64" clear	Sumitomo Electric – Japan
M23053/8-002-C	Sumitube K 1/16" clear	11148303.AA/02-01-19
M23053/8-003-C	Sumitube K 3/32" clear	
M23053/8-004-C	Sumitube K 1/8" clear	
M23053/8-005-C	Sumitube K 3/16" clear	
M23053/8-006-C	Sumitube K 1/4" clear	
M23053/8-007-C	Sumitube K 3/8" clear	
M23053/8-008-C	Sumitube K 1/2" clear	
M23053/8-009-C	Sumitube K 3/4" clear	
M23053/8-010-C	Sumitube K 1" clear	
M23053/8-011-C	Sumitube K 1 1/2" clear	

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/8-001-C	RW-175-3/64-X-L	TE Connectivity- CA
M23053/8-002-C	RW-175-1/16-X-L	11120203.AA/06-19-18
M23053/8-003-C	RW-175-3/32-X-L	
M23053/8-004-C	RW-175-1/8-X-L	
M23053/8-005-C	RW-175-3/16-X-L	
M23053/8-006-C	RW-175-1/4-X-L	
M23053/8-007-C	RW-175-3/8-X-L	
M23053/8-008-C	RW-175-1/2-X-L	
M23053/8-009-C	RW-175-3/4-X-L	
M23053/8-010-C	RW-175-1-X-L	
M23053/8-011-C	RW-175-1-1/2-X-L	

C = CLEAR SEE AS23053

L = STK FOR 4 FOOT LENGTHS
 SP FOR SPOOLS
 X = CLEAR

M23053/8-001-C	RW-175-3/64-X-L	TE Connectivity- Czech Republic
M23053/8-002-C	RW-175-1/16-X-L	11120203.AD/06-19-18
M23053/8-003-C	RW-175-3/32-X-L	
M23053/8-004-C	RW-175-1/8-X-L	
M23053/8-005-C	RW-175-3/16-X-L	
M23053/8-006-C	RW-175-1/4-X-L	
M23053/8-007-C	RW-175-3/8-X-L	
M23053/8-008-C	RW-175-1/2-X-L	
M23053/8-009-C	RW-175-3/4-X-L	
M23053/8-010-C	RW-175-1-X-L	
M23053/8-011-C	RW-175-1-1/2-X-L	

C = CLEAR SEE AS23053

L = STK FOR 4 FOOT LENGTHS
 SP FOR SPOOLS
 X = CLEAR

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**SAE-AS23053/10, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE,
SILICONE RUBBER, FLEXIBLE**

M23053/10-001-0	SFR-1/8-0-L	TE Connectivity- CA
M23053/10-002-0	SFR-1/4-0-L	11120203.AA/06-19-18
M23053/10-003-0	SFR-3/8-0-L	
M23053/10-004-0	SFR-1/2-0-L	
M23053/10-005-0	SFR-5/8-0-L	
M23053/10-006-0	SFR-3/4-0-L	
M23053/10-007-0	SFR-7/8-L	
M23053/10-008-0	SFR-1-0-L	
M23053/10-009-0	SFR-1-1/4-0-L	
M23053/10-010-0	SFR-1-1/2-0-L	
M23053/10-011-0	SFR-1-3/4-0-L	
M23053/10-012-0	SFR-2-0-L	

L = STK FOR 4 FOOT LENGTHS
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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SAE-AS23053/13, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, FLUOROELASTOMER, FLEXIBLE

M23053/13-001-0	80-6102-5203-5 L & 7100030672 L	3M Company
M23053/13-002-0	80-6102-5204-3 L & 7100030673 L	11146003.AA/06-19-2018
M23053/13-003-0	80-6102-5206-8 L & 7010349778 L	
M23053/13-004-0	80-6102-5210-0 L & 7100030676 L	
M23053/13-005-0	80-6102-5212-6 L & 7010320074 L	
M23053/13-006-0	80-6102-5213-4 L & 7100030679 L	
M23053/13-007-0	80-6102-5217-5 L & 7100030678 L	
M23053/13-008-0	80-6102-5214-2 L & 7100030675 L	
M23053/13-009-0	80-6102-5215-9 L & 7100056040 L	
M23053/13-010-0	80-6102-5216-7 L & 7100030674 L	
M23053/13-011-0	80-6102-5217-5 L & 7100030678 L	
M23053/13-012-0	80-6102-5202-7 L & 7100030677 L	

L = VARIOUS LENGTHS AND SPOOLS

M23053/13-001-*	DUNBAR V200-3/16"-* or DUNBAR QPL™-200-3/16"-*	Dunbar Products LLC
M23053/13-002-*	DUNBAR V200-1/4"-* or DUNBAR QPL™-200-1/4"-*	11148103.AA/06-19-18
M23053/13-003-*	DUNBAR V200-3/8"-* or DUNBAR QPL™-200-3/8"-*	
M23053/13-004-*	DUNBAR V200-1/2"-* or DUNBAR QPL™-200-1/2"-*	
M23053/13-005-*	DUNBAR V200-5/8"-* or DUNBAR QPL™-200-5/8"-*	
M23053/13-006-*	DUNBAR V200-3/4"-* or DUNBAR QPL™-200-3/4"-*	
M23053/13-007-*	DUNBAR V200-7/8"-* or DUNBAR QPL™-200-7/8"-*	
M23053/13-008-*	DUNBAR V200-1"-* or DUNBAR QPL™-200-1"-*	
M23053/13-009-*	DUNBAR V200-1-1/4"-* or DUNBAR QPL™-200-1-1/4"-*	
M23053/13-010-*	DUNBAR V200-1-1/2"-* or DUNBAR QPL™-200-1-1/2"-*	
M23053/13-011-*	DUNBAR V200-2"-* or DUNBAR QPL™-200-2"-*	
M23053/13-012-*	DUNBAR V200-1/8"-* or DUNBAR QPL™-200-1/8"-*	

* = COLOR
SEE AS23053

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/13-001-*	LS-V200-3/16"-*	LS Cable & System
M23053/13-002-*	LS-V200-1/4"-*	11144903.AA/06-19-18
M23053/13-003-*	LS-V200-3/8"-*	
M23053/13-004-*	LS-V200-1/2"-*	
M23053/13-005-*	LS-V200-5/8"-*	
M23053/13-006-*	LS-V200-3/4"-*	
M23053/13-007-*	LS-V200-7/8"-*	
M23053/13-008-*	LS-V200-1"-*	
M23053/13-009-*	LS-V200-1-1/4"-*	
M23053/13-010-*	LS-V200-1-1/2"-*	
M23053/13-011-*	LS-V200-2"-*	
M23053/13-012-*	LS-V200-1/8"-*	

* = COLOR SEE AS23053

* = COLOR SEE AS23053

M23053/13-001-*	Sumitube FE3 3/16"	Sumitomo Electric – Japan
M23053/13-002-*	Sumitube FE3 1/4"	11148303.AA/02-01-19
M23053/13-003-*	Sumitube FE3 3/8"	
M23053/13-004-*	Sumitube FE3 1/2"	
M23053/13-005-*	Sumitube FE3 5/8"	
M23053/13-006-*	Sumitube FE3 3/4"	
M23053/13-007-*	Sumitube FE3 7/8"	
M23053/13-008-*	Sumitube FE3 1"	
M23053/13-009-*	Sumitube FE3 1 1/4"	
M23053/13-010-*	Sumitube FE3 1 1/2"	
M23053/13-011-*	Sumitube FE3 2"	
M23053/13-012-*	Sumitube FE3 1/8"	
M23053/13-001-*	Sumitube KH200 or KH230 3/16"	
M23053/13-002-*	Sumitube KH200 or KH230 1/4"	
M23053/13-003-*	Sumitube KH200 or KH230 3/8"	
M23053/13-004-*	Sumitube KH200 or KH230 1/2"	
M23053/13-005-*	Sumitube KH200 or KH230 5/8"	
M23053/13-006-*	Sumitube KH200 or KH230 3/4"	
M23053/13-007-*	Sumitube KH200 or KH230 7/8"	
M23053/13-008-*	Sumitube KH200 or KH230 1"	
M23053/13-012-*	Sumitube KH200 or KH230 1/8"	

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE
CONTINUOUS TUBING FOR
SUMIMARK PRINTERS**

M23053/13-001-*	Sumimark SM3-60 3/16"
M23053/13-002-*	Sumimark SM3-60 1/4"
M23053/13-003-*	Sumimark SM3-60 3/8"
M23053/13-004-*	Sumimark SM3-60 1/2"
M23053/13-005-*	Sumimark SM3-60 5/8"
M23053/13-006-*	Sumimark SM3-60 3/4"
M23053/13-007-*	Sumimark SM3-60 7/8"
M23053/13-008-*	Sumimark SM3-60 1"
M23053/13-009-*	Sumimark SM3-60 1 1/4"
M23053/13-010-*	Sumimark SM3-60 1 1/2"

Sumitomo Electric – Japan
11148303.AA/02-01-19
(Continued)

**MARKER SLEEVE
CONTINUOUS TUBING FOR
SUMITAG PRINTERS
inch / (metric)**

M23053/13-001-*	HVT-3/16"-**-30M-SPL-2X / (HVT-048-30M-**-2X)
M23053/13-002-*	HVT-1/4"-**-30M-SPL-2X / (HVT-064-30M-**-2X)
M23053/13-003-*	HVT-3/8"-**-30M-SPL-2X / (HVT-095-30M-**-2X)
M23053/13-004-*	HVT-1/2"-**-30M-SPL-2X / (HVT-127-30M-**-2X)
M23053/13-006-*	HVT-3/4"-**-30M-SPL-2X / (HVT-191-30M-**-2X)
M23053/13-008-*	HVT-1"-**-15M-SPL-2X / (HVT-254-15M-**-2X)
M23053/13-010-*	HVT-1.5"-**-15M-SPL-2X / (HVT-381-15M-**-2X)
M23053/13-011-*	HVT-2"-**-15M-SPL-2X / (HVT-508-15M-**-2X)
M23053/13-012-*	HVT-1/8"-**-30M-SPL-2X / (HVT-032-30M-**-2X)

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/13-001-0	RW-200-3/16-0-L	TE Connectivity- CA
M23053/13-002-0	RW-200-1/4-0-L	11120203.AA/06-19-18
M23053/13-003-0	RW-200-3/8-0-L	
M23053/13-004-0	RW-200-1/2-0-L	
M23053/13-005-0	RW-200-5/8-L	
M23053/13-006-0	RW-200-3/4-0-L	
M23053/13-007-0	RW-200-7/8-L	
M23053/13-008-0	RW-200-1-0-L	
M23053/13-009-0	RW-200-1-1/4-0-L	
M23053/13-010-0	RW-200-1-1/2-0-L	
M23053/13-011-0	RW-200-2-0-L	
M23053/13-012-0	RW-200-1/8-0-L	

L = STK FOR 4 FOOT LENGTHS
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**SAE-AS23053/15, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE,
POLYOLEFIN, HEAVY-WALL, COATED, FLEXIBLE, OUTER WALL CROSSLINKED**

M23053/15-101-0	80-6114-5428-3 L & 7000132410 L	3M Company
M23053/15-102-0	80-6102-9461-5 L & 7000132411 L	11146003.AA/06-19-2018
M23053/15-103-0	80-6102-9462-3 L & 7000132412 L	
M23053/15-104-0	80-6102-9464-9 L & 7100011352 L	
M23053/15-105-0	80-6102-9465-6 L & 7000132414 L	
M23053/15-106-0	80-6114-4331-0 L & 7010397983 L	
M23053/15-107-0	80-6108-2042-7 L & 7010396826 L	
M23053/15-108-0	80-6102-9459-9 L & 7000132409 L	
M23053/15-109-0	80-6110-7203-6 L & 7010350348 L	
M23053/15-110-0	80-6114-4918-4 L & 7000133200 L	
M23053/15-111-0	80-6116-0674-2 L & 7010399041 L	
M23053/15-112-0	80-6102-9466-4 L & 7000132415 L	
M23053/15-201-0	80-6102-9482-1 L & 7000132416 L	
M23053/15-202-0	80-6102-9483-9 L & 7000132417 L	
M23053/15-203-0	80-6102-9484-7 L & 7000132418 L	
M23053/15-204-0	80-6102-9485-4 L & 7000005984 L	
M23053/15-205-0	80-6102-9486-2 L & 7000132419 L	
M23053/15-206-0	80-6102-9487-0 L & 7000132420 L	
M23053/15-207-0	80-6102-9489-6 L & 7000132421 L	
M23053/15-208-0	80-6102-9488-8 L & 7000005985 L	

L = VARIOUS LENGTHS AND SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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M23053/15-101-0	DUNBAR PHWT-20mm-0 or DUNBAR QPL™-HW-750-0	Dunbar Products LLC
M23053/15-102-0	DUNBAR PHWT-27mm-0 or DUNBAR QPL™-HW-1100-0	11148103.AA/06-19-18
M23053/15-103-0	DUNBAR PHWT-38mm-0 or DUNBAR QPL™-HW-1500-0	
M23053/15-104-0	DUNBAR PHWT-51mm-0 or DUNBAR QPL™-HW-2000-0	
M23053/15-105-0	DUNBAR PHWT-75mm-0 or DUNBAR QPL™-HW-3000-0	
M23053/15-106-0	DUNBAR PHWT-100mm-0 or DUNBAR QPL™-HW-4000-0	
M23053/15-107-0	DUNBAR PHWT-7mm-0 or DUNBAR QPL™-HW-300-0	
M23053/15-108-0	DUNBAR PHWT-10mm-0 or DUNBAR QPL™-HW-400-0	
M23053/15-109-0	DUNBAR PHWT-35mm-0 or DUNBAR QPL™-HW-1300-0	
M23053/15-110-0	DUNBAR PHWT-45mm-0 or DUNBAR QPL™-HW-1700-0	
M23053/15-111-0	DUNBAR PHWT-70mm-0 or DUNBAR QPL™-HW-2700-0	
M23053/15-112-0	DUNBAR PHWT-115mm-0 or DUNBAR QPL™-HW-4500-0	

M23053/15-101-0	LS-PHWT-FR-20mm-0	LS Cable & System
M23053/15-102-0	LS-PHWT-FR-27mm-0	11144903.AA/06-19-18
M23053/15-103-0	LS-PHWT-FR-38mm-0	
M23053/15-104-0	LS-PHWT-FR-51mm-0	
M23053/15-105-0	LS-PHWT-FR-75mm-0	
M23053/15-106-0	LS-PHWT-FR-100mm-0	
M23053/15-107-0	LS-PHWT-FR-7mm-0	
M23053/15-108-0	LS-PHWT-FR-10mm-0	
M23053/15-109-0	LS-PHWT-FR-35mm-0	
M23053/15-110-0	LS-PHWT-FR-43mm-0	
M23053/15-111-0	LS-PHWT-FR-70mm-0	
M23053/15-112-0	LS-PHWT-FR-115mm-0	

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/15-101-0	SST-48-07/FR/*	TE Connectivity- CA
M23053/15-102-0	SST-48-11/FR/*	11120203.AA/06-19-18
M23053/15-103-0	SST-48-15/FR/*	
M23053/15-104-0	SST-48-20/FR/*	
M23053/15-105-0	SST-48-30/FR/*	
M23053/15-106-0	SST-48-40/FR/*	
M23053/15-107-0	SST-48-03/FR/*	
M23053/15-108-0	SST-48-04/FR/*	
M23053/15-109-0	SST-48-13/FR/*	
M23053/15-110-0	SST-48-17/FR/*	
M23053/15-111-0	SST-48-27/FR/*	
M23053/15-112-0	SST-48-45/FR/*	
M23053/15-201-0	SST-48-04/FR/*	
M23053/15-202-0	SST-48-07/FR/*	
M23053/15-203-0	SST-48-11/FR/*	
M23053/15-204-0	SST-48-13/FR/*	
M23053/15-205-0	SST-48-15/FR/*	
M23053/15-206-0	SST-48-17/FR/*	
M23053/15-207-0	SST-48-27/FR/*	
M23053/15-208-0	SST-48-20/FR/*	

* 97 =Adhesive
226 =Sealant

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/15-101-0	SST-48-07/FR/*	TE Connectivity- Germany 11120203.AB/06-19-18
M23053/15-102-0	SST-48-11/FR/*	
M23053/15-103-0	SST-48-15/FR/*	
M23053/15-104-0	SST-48-20/FR/*	
M23053/15-105-0	SST-48-30/FR/*	
M23053/15-106-0	SST-48-40/FR/*	
M23053/15-107-0	SST-48-03/FR/*	
M23053/15-108-0	SST-48-04/FR/*	
M23053/15-109-0	SST-48-13/FR/*	
M23053/15-110-0	SST-48-17/FR/*	
M23053/15-111-0	SST-48-27/FR/*	
M23053/15-112-0	SST-48-45/FR/*	
M23053/15-201-0	SST-48-04/FR/*	
M23053/15-202-0	SST-48-07/FR/*	
M23053/15-203-0	SST-48-11/FR/*	
M23053/15-204-0	SST-48-13/FR/*	
M23053/15-205-0	SST-48-15/FR/*	
M23053/15-206-0	SST-48-17/FR/*	
M23053/15-207-0	SST-48-27/FR/*	
M23053/15-208-0	SST-48-20/FR/*	

* 97 =Adhesive
226 =Sealant

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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SAE-AS23053/16, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, CROSSLINKED, ELASTOMERIC POLYOLEFIN, FLEXIBLE

M23053/16-001-0	80-6106-7545-8 L & 7010396619 L	3M Company
M23053/16-002-0	80-6106-7546-6 L & 7100079227 L	11146003.AA/06-19-2018
M23053/16-003-0	80-6106-7547-4 L & 7100079228 L	
M23053/16-004-0	80-6106-7548-2 L & 7100079229 L	
M23053/16-005-0	80-6106-7550-8 L & 7100079230 L	
M23053/16-006-0	80-6106-7552-4 L & 7100030670 L	

L = VARIOUS LENGTHS AND SPOOLS

M23053/16-001-0	DUNBAR DR150-1/4"-0 or DUNBAR QPL™-DR-1/4"-0	Dunbar Products LLC
M23053/16-002-0	DUNBAR DR150-3/8"-0 or DUNBAR QPL™-DR-3/8"-0	11148103.AA/06-19-18
M23053/16-003-0	DUNBAR DR150-1/2"-0 or DUNBAR QPL™-DR-1/2"-0	
M23053/16-004-0	DUNBAR DR150-3/4"-0 or DUNBAR QPL™-DR-3/4"-0	
M23053/16-005-0	DUNBAR DR150-1"-0 or DUNBAR QPL™-DR-1"-0	
M23053/16-006-0	DUNBAR DR150-1-1/4"-0 or DUNBAR QPL™-DR-1-1/4"-0	
M23053/16-007-0	DUNBAR DR150-2"-0 or DUNBAR QPL™-DR-2"-0	
M23053/16-008-0	DUNBAR DR150-3"-0 or DUNBAR QPL™-DR-3"-0	
M23053/16-009-0	DUNBAR DR150-4"-0 or DUNBAR QPL™-DR-4"-0	

M23053/16-001-0	LG-DRET-1/4"-0	LS Cable & System
M23053/16-002-0	LG-DRET-3/8"-0	11144903.AA/06-19-18
M23053/16-003-0	LG-DRET-1/2"-0	
M23053/16-004-0	LG-DRET-3/4"-0	
M23053/16-005-0	LG-DRET-1"-0	
M23053/16-006-0	LG-DRET-1-1/2"-0	
M23053/16-007-0	LG-DRET-2"-0	
M23053/16-008-0	LG-DRET-3"-0	
M23053/16-009-0	LG-DRET-4"-0	

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/16-001-0	Sumitube R120 1/4"	Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/16-002-0	Sumitube R120 3/8"	
M23053/16-003-0	Sumitube R120 1/2"	
M23053/16-004-0	Sumitube R120 3/4"	
M23053/16-005-0	Sumitube R120 1"	
M23053/16-006-0	Sumitube R120 1 1/2"	
M23053/16-007-0	Sumitube R120 2"	
M23053/16-008-0	Sumitube R120 3"	
M23053/16-009-0	Sumitube R120 4"	
M23053/16-001-0	Sumitube AN25 1/4"	
M23053/16-002-0	Sumitube AN25 3/8"	
M23053/16-003-0	Sumitube AN25 1/2"	
M23053/16-004-0	Sumitube AN25 3/4"	
M23053/16-005-0	Sumitube AN25 1"	
M23053/16-006-0	Sumitube AN25 1 1/2"	
M23053/16-007-0	Sumitube AN25 2"	
M23053/16-008-0	Sumitube AN25 3"	
M23053/16-009-0	Sumitube AN25 4"	
M23053/16-001-0	Sumitube FR25 1/4"	
M23053/16-002-0	Sumitube FR25 3/8"	
M23053/16-003-0	Sumitube FR25 1/2"	
M23053/16-004-0	Sumitube FR25 3/4"	
M23053/16-005-0	Sumitube FR25 1"	
M23053/16-006-0	Sumitube FR25 1 1/2"	
M23053/16-007-0	Sumitube FR25 2"	
M23053/16-008-0	Sumitube FR25 3"	
M23053/16-009-0	Sumitube FR25 4"	

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/16-001-0	DR-25-1/4-0-L	TE Connectivity- CA
M23053/16-002-0	DR-25-3/8-0-L	11120203.AA/06-19-18
M23053/16-003-0	DR-25-1/2-0-L	
M23053/16-004-0	DR-25-3/4-0-L	
M23053/16-005-0	DR-25-1-0-L	
M23053/16-006-0	DR-25-1-1/2-0-L	
M23053/16-007-0	DR-25-2-0-L	
M23053/16-008-0	DR-25-3-0-L	
M23053/16-009-0	DR-25-4-0-L	

L = STK FOR 4 FOOT LENGTHS
SP FOR SPOOLS

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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SAE-AS23053/18, INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, MODIFIED FLUOROPOLYMER, CROSSLINKED

M23053/18-201-*	DUNBAR FK150-3/64"-* or DUNBAR QPL™-PMK-3/64"-*	Dunbar Products LLC
M23053/18-202-*	DUNBAR FK150-1/16"-* or DUNBAR QPL™-PMK-1/16"-*	11148103.AA/06-19-18
M23053/18-203-*	DUNBAR FK150-3/32"-* or DUNBAR QPL™-PMK-3/32"-*	
M23053/18-204-*	DUNBAR FK150-1/8"-* or DUNBAR QPL™-PMK-1/8"-*	
M23053/18-205-*	DUNBAR FK150-3/16"-* or DUNBAR QPL™-PMK-3/16"-*	
M23053/18-206-*	DUNBAR FK150-1/4"-* or DUNBAR QPL™-PMK-1/4"-*	
M23053/18-207-*	DUNBAR FK150-3/8"-* or DUNBAR QPL™-PMK-3/8"-*	
M23053/18-208-*	DUNBAR FK150-1/2"-* or DUNBAR QPL™-PMK-1/2"-*	
M23053/18-209-*	DUNBAR FK150-3/4"-* or DUNBAR QPL™-PMK-3/4"-*	
M23053/18-210-*	DUNBAR FK150-1"-* or DUNBAR QPL™-PMK-1"-*	

* = COLOR
SEE AS23053

* = COLOR SEE AS23053

M23053/18-201-*	LS-FK150-3/64"-*	LS Cable & System
M23053/18-202-*	LS-FK150-1/16"-*	11144903.AA/06-19-18
M23053/18-203-*	LS-FK150-3/32"-*	
M23053/18-204-*	LS-FK150-1/8"-*	
M23053/18-205-*	LS-FK150-3/16"-*	
M23053/18-206-*	LS-FK150-1/4"-*	
M23053/18-207-*	LS-FK150-3/8"-*	
M23053/18-208-*	LS-FK150-1/2"-*	
M23053/18-209-*	LS-FK150-3/4"-*	
M23053/18-210-*	LS-FK150-1"-*	

* = COLOR SEE AS23053

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/18-101-*	Sumitube K2 3/64"	Sumitomo Electric – Japan 11148303.AA/02-01-19
M23053/18-102-*	Sumitube K2 1/16"	
M23053/18-103-*	Sumitube K2 3/32"	
M23053/18-104-*	Sumitube K2 1/8"	
M23053/18-105-*	Sumitube K2 3/16"	
M23053/18-106-*	Sumitube K2 1/4"	
M23053/18-107-*	Sumitube K2 3/8"	
M23053/18-108-*	Sumitube K2 1/2"	
M23053/18-109-*	Sumitube K2 3/4"	
M23053/18-110-*	Sumitube K2 1"	
M23053/18-111-*	Sumitube K2 1 1/2"	
M23053/18-112-*	Sumitube K2 2"	

**MARKER SLEEVE CONTINUOUS TUBING
FOR SUMITAG PRINTERS
inch / (metric sizes)**

M23053/18-104-*	HTC-1/8-**-30M-SPL-2X / (HTC-032-30M-**-2X)
M23053/18-105-*	HTC-3/16-**-30M-SPL-2X / (HTC-048-30M-**-2X)
M23053/18-106-*	HTC-1/4-**-30M-SPL-2X / (HTC-064-30M-**-2X)
M23053/18-107-*	HTC-3/8-**-30M-SPL-2X / (HTC-095-30M-**-2X)
M23053/18-108-*	HTC-1/2-**-30M-SPL-2X / (HTC-127-30M-**-2X)
M23053/18-109-*	HTC-3/4-**-30M-SPL-2X / (HTC-191-30M-**-2X)
M23053/18-110-*	HTC-1-**-20M-SPL-2X / (HTC-254-20M-**-2X)
M23053/18-111-*	HTC-1.5-**-20M-SPL-2X / (HTC-381-15M-**-2X)

M23053/18-304-*	Sumitube K3 1/8"
M23053/18-305-*	Sumitube K3 3/16"
M23053/18-306-*	Sumitube K3 1/4"
M23053/18-307-*	Sumitube K3 3/8"
M23053/18-308-*	Sumitube K3 1/2"
M23053/18-309-*	Sumitube K3 3/4"
M23053/18-310-*	Sumitube K3 1"

M23053/18-304-*	Sumitube KH200(TW) or KH230(TW) 1/8"
M23053/18-305-*	Sumitube KH200(TW) or KH230(TW) 3/16"
M23053/18-306-*	Sumitube KH200(TW) or KH230(TW) 1/4"
M23053/18-307-*	Sumitube KH200(TW) or KH230(TW) 3/8"
M23053/18-308-*	Sumitube KH200(TW) or KH230(TW) 1/2"
M23053/18-309-*	Sumitube KH200(TW) or KH230(TW) 3/4"
M23053/18-310-*	Sumitube KH200(TW) or KH230(TW) 1"

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
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**MARKER SLEEVE CONTINUOUS
TUBING FOR SUMIMARK PRINTERS**

M23053/18-304-*	Sumimark SM3-31 1/8"
M23053/18-305-*	Sumimark SM3-31 3/16"
M23053/18-306-*	Sumimark SM3-31 1/4"
M23053/18-307-*	Sumimark SM3-31 3/8"
M23053/18-308-*	Sumimark SM3-31 1/2"
M23053/18-309-*	Sumimark SM3-31 3/4"
M23053/18-310-*	Sumimark SM3-31 1"

* See AS23053 for color codes **color codes

SUMITAG PRODUCTS ARE SOLD AS 15 METER, 20METER, OR 30METER LENGTHS ON SPOOL ONLY

	BULK TUBING	Sumi-Pac Corporation 11148703.AA/02-01-19
M23053/18-101-*	Sumitube K2 3/64"	
M23053/18-102-*	Sumitube K2 1/16"	
M23053/18-103-*	Sumitube K2 3/32"	
M23053/18-104-*	Sumitube K2 1/8"	
M23053/18-105-*	Sumitube K2 3/16"	
M23053/18-106-*	Sumitube K2 1/4"	
M23053/18-107-*	Sumitube K2 3/8"	
M23053/18-108-*	Sumitube K2 1/2"	
M23053/18-109-*	Sumitube K2 3/4"	
M23053/18-110-*	Sumitube K2 1"	

* = COLOR SEE AS23053

QPL-23053-2

SPECIFICATION DESIGNATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME AND QUALIFICATION TEST REFERENCE
M23053/18-201-C	RT-375-3/64-X-L	TE Connectivity- CA 11120203.AA/06-19-18
M23053/18-202-C	RT-375-1/16-X-L	
M23053/18-203-C	RT-375-3/32-X-L	
M23053/18-204-C	RT-375-1/8-X-L	
M23053/18-205-C	RT-375-3/16-X-L	
M23053/18-206-C	RT-375-1/4-X-L	
M23053/18-207-C	RT-375-3/8-X-L	
M23053/18-208-C	RT-375-1/2-X-L	
M23053/18-209-C	RT-375-3/4-X-L	
M23053/18-210-C	RT-375-1-X-L	
M23053/18-201-*	RNF-150-3/64-*-L	
M23053/18-202-*	RNF-150-1/16-*-L	
M23053/18-203-*	RNF-150-3/32-*-L	
M23053/18-204-*	RNF-150-1/8-*-L	
M23053/18-205-*	RNF-150-3/16-*-L	
M23053/18-206-*	RNF-150-1/4-*-L	
M23053/18-207-*	RNF-150-3/8-*-L	
M23053/18-208-*	RNF-150-1/2-*-L	
M23053/18-209-*	RNF-150-3/4-*-L	
M23053/18-210-*	RNF-150-1-*-L	
M23053/18-301-C	HT-200-3/64-X-L	
M23053/18-302-C	HT-200-1/16-X-L	
M23053/18-303-C	HT-200-3/32-X-L	
M23053/18-304-C	HT-200-1/8-X-L	
M23053/18-305-C	HT-200-3/16-X-L	
M23053/18-306-C	HT-200-1/4-X-L	
M23053/18-307-C	HT-200-3/8-X-L	
M23053/18-308-C	HT-200-1/2-X-L	
M23053/18-309-C	HT-200-3/4-X-L	
M23053/18-310-C	HT-200-1-X-L	

* = COLOR SEE AS23053

X= CLEAR

L = STK FOR 4 FOOT LENGTHS

SP FOR SPOOLS

MANUFACTURER'S OFFICE ADDRESS (Where contracts are received)	MANUFACTURER'S PLANT ADDRESS (Primary source of manufacturing & control)
3M Company 6801 River Place Blvd. Austin, Texas 78726 Cage Code: 53387	3M Company 279 Billerica Road Chelmsford, MA 01824 Cage Code: 7C0E7
Alpha Wire Company 711 Lidgerwood Avenue Elizabeth, NJ 07202 Cage Code: 92194	Alpha Wire Company 711 Lidgerwood Avenue Elizabeth, NJ 07202 Cage Code: 92194
Brady Worldwide 6555 West Good Hope Road Milwaukee, WI 53223 USA Cage Code: 3WAW1	Brady Worldwide 6555 West Good Hope Road Milwaukee, WI 53223 USA Cage Code: 3WAW1
Dunbar Products LLC 1302 Champion Circle Carrollton, TX 75006 Cage Code: 1QL94	CNB-Tek 387, Sinsadaehwa-Ro, Seongnam-Myeon Dongham-Gu, Cheonan-Si, South Korea 31245 Cage Code: 447CF
Dunbar Products LLC 1302 Champion Circle Carrollton, TX 75006 Cage Code: 1QL94	Dunbar Products LLC 1302 Champion Circle Carrollton, TX 75006 Cage Code: 1QL94
Grayline LLC 2101 Airport Road Waukesha, WI 53188 Cage Code: 1L9D2	Grayline LLC 2101 Airport Road Waukesha, WI 53188 Cage Code: 1L9D2

MANUFACTURER'S OFFICE ADDRESS (Where contracts are received)	MANUFACTURER'S PLANT ADDRESS (Primary source of manufacturing & control)
<p>Insultab, Inc. 45 Industrial Parkway Woburn, MA 01801</p> <p>Cage Code: 12509</p>	<p>Insultab, Inc. 45 Industrial Parkway Woburn, MA 01801</p> <p>Cage Code: 12509</p>
<p>Dunbar Products LLC 1302 Champion Circle Carrollton, TX 75006</p> <p>Cage Code: 1QL94</p>	<p>LS Cable & System 238, 3gongdan 2-ro Gumi, Gyeongbuk, South Korea 39395</p> <p>Cage Code: 1060F</p>
<p>Sumitomo Electric Interconnect Products, Inc. (SEIP) 915 Armorlite Drive San Marcos, CA 92069</p> <p>Cage Code: 1JX75</p>	<p>Sumitomo Electric Interconnect Products, Inc. (SEIP) 915 Armorlite Drive San Marcos, CA 92069</p> <p>Cage Code: 1JX75</p>
<p>Sumitomo Electric Schrumpf-Produkte GmbH (SESP) Oststrasse 89, D 22844 Norderstedt, Germany</p> <p>Cage Code: C8275</p>	<p>Sumitomo Electric Schrumpf-Produkte GmbH (SESP) Oststrasse 89, D 22844 Norderstedt, Germany</p> <p>Cage Code: C8275</p>
<p>Sumi-Pac Corporation No. 2 Kon Ye 5 Road, Fon San Tsuen, Fu Kow Shan, Hsin Chu Hsien 303, Taiwan, R.O.C.</p> <p>Cage Code: SBZQ8</p>	<p>Sumi-Pac Corporation No. 2 Kon Ye 5 Road, Fon San Tsuen, Fu Kow Shan, Hsin Chu Hsien 303, Taiwan, R.O.C.</p> <p>Cage Code: SBZQ8</p>

MANUFACTURER'S OFFICE ADDRESS (Where contracts are received)	MANUFACTURER'S PLANT ADDRESS (Primary source of manufacturing & control)
<p>Sumi-Pac Corporation No. 2 Kon Ye 5 Road, Fon San Tsuen, Fu Kow Shan, Hsin Chu Hsien 303, Taiwan, R.O.C.</p> <p>Cage Code: SBZQ8</p>	<p>Sumi-Pac Corporation No. 2 Kon Ye 5 Road, Fon San Tsuen, Fu Kow Shan, Hsin Chu Hsien 303, Taiwan, R.O.C.</p> <p>Cage Code: SBZQ8</p>
<p>Sumitomo Electric Fine Polymer, Inc. 1-950, Asashironishi, Kumatori-cho Sennan-gun, Osaka 590-0458 Japan</p> <p>Cage Code: S7726</p>	<p>Sumitomo Electric Fine Polymer, Inc. 1-950, Asashironishi, Kumatori-cho Sennan-gun, Osaka 590-0458 Japan</p> <p>Cage Code: S7726</p>
<p>TE Connectivity 501 Oakside Avenue Redwood City, CA 94063</p> <p>Cage Code: 06090</p>	<p>TE Connectivity 501 Oakside Avenue Redwood City, CA 94063</p> <p>Cage Code: 06090</p>
<p>TE Connectivity 501 Oakside Avenue Redwood City, CA 94063</p> <p>Cage Code: 06090</p>	<p>TE Raychem GmbH Finsinger Feld 1. Ottobrunn, Bayern, 85521 Germany</p> <p>Cage Code: D1973</p>
<p>TE Connectivity 501 Oakside Avenue Redwood City, CA 94063</p> <p>Cage Code: 06090</p>	<p>Tyco Electronics EC Trutnov s.r.o. Komenskeho 821, Trutnov- Stredni Predmesti, Trutnov, 54101 Czech Republic</p> <p>Cage Code: 0198G</p>