

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS S-WM-8.101-GS/PL
		Former Designation: ESP-WM-8.101-GS
TITLE:	Straps – Metric Series	CURRENT REV No.: 1604
		DATE: April 2016
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: Rev. 1506 - October 2015
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Removed parts 3667668C1 & 3516934C1.		

1.0 GENERAL: This specification contains the essentials of the following standards:

- FDA CFR177.1500
- ASTM D-4066PA0111
- ASTM D-4066PA0121
- ASTM D-4066PA0110
- ASTM D-4066PA0161
- ASTM D-4066PA0151
- ASTM D-4066PA0922

Millimeter dimensioned straps found in this Specification.

2.0 RESTRICTED CHEMICAL SUBSTANCES: Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.

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4.0 DESIGN PARAMETERS: See tables below for operating temperature and tests sequences for each strap.

5.0 MATERIAL: See tables below for specific strap material details.

6.0 FINISH: Plain.

7.0 WORKMANSHIP: Parts will be free from burrs, loose scale, sharp edges, and all other defects that might affect their serviceability.

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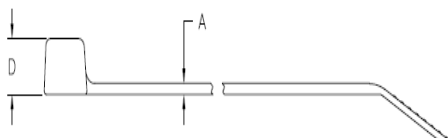
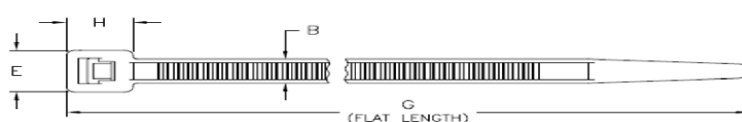
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8.0 CABLE STRAPS:



8.1 Part List:

8.1.1 Approved:

- Specifications:

Part Description	Navistar P/N	Material	Approved Material	Note	Test Sequence
18 lb. Standard Cable Strap	869707C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
18 lb. Standard Cable Strap	473321C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
50 lb. Standard Cable Strap	533959R1	Polyamide 6.6 Heat Stabilized	Hellermann Tyton	Operating Temperature -40°F To +221°F Continuous	-
50 lb. Standard Cable Strap	291207C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
120 lb. Standard Cable Strap	3551709C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
120 lb. Standard Cable Strap	306132C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
120 lb. Standard Cable Strap	2017556C1	Polyamide 6.6 Heat Stabilized	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	-
120 lb. Standard Cable Strap	386170C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
175 lb. Standard Cable Strap	2042710C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
250 lb. Standard Cable Strap	3626607C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F

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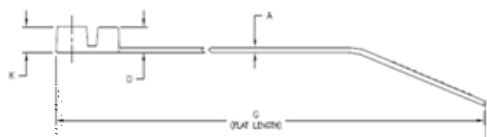
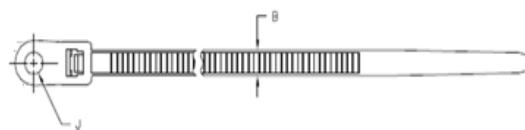
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- Dimensions:

Part Description	Navistar P/N	Color	Max Ø Bundle	Min. Tensile Strength	A	B	D	E	G	H
18 lb. Standard Cable Strap	869707C1	BLACK	22.09	18 lbs	1.0 ±0.2	2.45±0.2	3.7 ±0.3	4.45 ±0.5	100.0 ±5.0	4.8 ±0.5
18 lb. Standard Cable Strap	473321C1	BLACK	55.11	18 lbs	1.2 ±0.2	2.5±0.2	3.9 ±0.5	4.5 ±0.5	205.0 ±5.0	4.8 ±0.5
50 lb. Standard Cable Strap	533959R1	BLACK	85.09	50 lbs	1.2 ±0.2	4.6±0.2	5.7 ±0.4	7.5 ±0.7	300.0 ±6.0	7.2 ±0.7
50 lb. Standard Cable Strap	291207C1	BLACK	109.98	50 lbs	1.2 ±0.2	4.7±0.2	5.8 ±0.4	7.9 ±1.0	390.0 ±10.0	7.2 ±1.3
120 lb. Standard Cable Strap	3551709C1	BLACK	224.79	120 lbs	1.6 ±0.2	7.6±0.2	7.7±0.6	13.15 ±1.35	225.0 ±5.0	10.0 ±1.0
120 lb. Standard Cable Strap	306132C1	BLACK	104.90	120 lbs	1.9 ±0.2	7.6±0.2	7.35±1.0	12.65 ±1.0	387.0 ±10.0	10.5 ±1.5
120 lb. Standard Cable Strap	2017556C1	BLACK	80.01	120 lbs	1.6 ±0.2	7.6±0.2	7.7 ±0.6	13.0 ±0.9	300.0 ±5.0	10.2 ±1.0
120 lb. Standard Cable Strap	386170C1	BLACK	224.79	120 lbs	1.9 ±0.2	7.6±0.2	7.8 ±0.5	13.0 ±0.7	760.0 ±10.0	10.0 ±1.0
175 lb. Standard Cable Strap	2042710C1	BLACK	275.08	175 lbs	1.9 ±0.2	8.8 ±0.2	9.5 ±0.3	14.0 ±0.5	925.0 ±10.0	13.1 ±0.9
250 lb. Standard Cable Strap	3626607C1	BLACK	145.03	250 lbs	1.8±0.2	12.6±0.3	9.3 ±0.3	20.0 ±0.5	508.0 ±5.0	15.5 ±1.2

**Dimensions in mm

9.0 SCREW MOUNT CABLE STRAPS:



9.1 Part List:

9.1.1 Approved:

- Specifications:

Part Description	Navistar P/N	Material	Approved Material	Note	Test Sequence
50 lb. Screw Mount Cable Strap	366704C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F
50 lb. Screw Mount Cable Strap	406040000	Polyamide 6.6 Heat Stabilized	Hellermann Tyton	Operating Temperature -40°F To +105°F	-
50 lb. Screw Mount Cable Strap	2225091C1	Polyamide 6.6 Heat Stabilized	Hellermann Tyton	Operating Temperature -40°F To +105°F	-
120 lb. Screw Mount Cable Strap	327097C1	Heat Stabilized Type 6/6 Nylon	Hellermann Tyton	Part Shall Exhibit No Breakage Or Cracking When Folded 180°F. Immediately After Exposure To The Identified Test Sequence.	500 Hours QUVB (Cycle = 8 Hours. UV @ 140°F, 4 Hours Condensation @ 122°F) 24 Hours @ 250°F 24 Hours In Desiccator @ 75°F

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