NEMA WC 55021

Shielded and Unshielded Military

ANATOMY OF A PART NUMBER

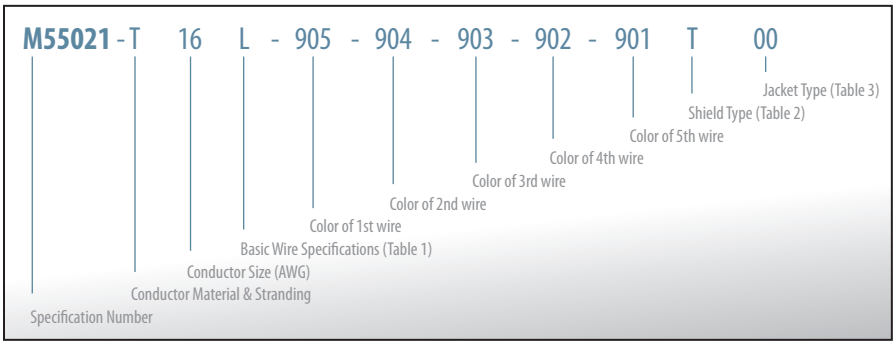

TABLE 1 - Basic Wire Specifications

Symbol	Basic Wire Specifications	Insulation Type	Temp. Rating	Voltage
L	NEMA HP 5 (XLPE)	TPC	125ºC	600V
LL	NEMA HP 5 (XLPE)	TPC	125ºC	1000V
LS	NEMA HP 8 (XLPO)	TPC	125ºC	600V
LX	NEMA HP 5 (XLPE)	TPC	125ºC	3000V
S	NEMA HP 6 (SILICONE)	TPC/SPC	150ºC/200ºC	600V
SS	NEMA HP 6 (SILICONE)	TPC/SPC	150ºC/200ºC	1000V
SSB	NEMA HP 6 (SILICONE/GLASS)	TPC/SPC	150ºC/200ºC	1000V
ZH	NEMA HP 8 (ZH-POLYOLEFIN)	TPC	125ºC	600V
ZHDM	NEMA HP 8 (ZH-POLYOLEFIN)	TPC	125ºC	600V
ZHDH	NEMA HP 8 (ZH-POLYOLEFIN)	TPC	125ºC	600V
ZHS	NEMA HP 6 (ZH-SILICONE)	TPC/SPC	150ºC/200ºC	600V
ZHSS	NEMA HP 6 (ZH-SILICONE)	TPC/SPC	150ºC/200ºC	1000V
ZHX	NEMA HP 8 (POLYOLEFIN)	TPC	125ºC	1000V

TABLE 2 - Shield Descriptions

Letter Symbol Type	Shield Material	Maximum Temperature Limit for Shield Material (Information only)
U	Unshielded	---
N	Nickel Plated Copper	260°C
S	Silver Plated Copper	200°C
T	Tin Plated Copper	150°C

TABLE 3 - Jacket Types

Letter Symbol Type	Jacket Material Type and Color	Maximum Temperature Limit for Jacket Material (Information only)
00	Unjacketed	---
01	Extruded white polyvinyl chloride (PVC)	90°C
02	Extruded clear polyamide	90°C
27	Extruded white Cross-linked Polyolefin	105°C
28	Extruded white Cross-Linked Zero Halogen Polyolefin	105°C
29	Extruded white Silicone	200°C
30	Extruded white Zero Halogen Silicone	200°C

APPLICATION

The NEMA WC 55021 specification is used to describe both shielded and unshielded cable constructions for internal wiring for electronic equipment. The specification allows the user a wide variety of construction choices. Circuit identification, conductor size, insulation type, number of conductors, shielding material, and jacket compound may all be specified using this document. Single conductor, twisted pairs, triple, quad, quintuple, and multi-conductor cables through 5 components are all included.

RSCC Aerospace & Defense® is able to provide a wide range of NEMA WC 55021 constructions. Although this brief catalog sheet cannot list all the detailed testing and specification requirements contained in the complete NEMA WC 55021 document, we have summarized the major construction features of the specification and listed those that RSCC Aerospace & Defense® produces. Please refer to NEMA WC 55021 for complete performance details.

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