

Marmon IEI – Mount Pleasant, TX part numbers are alphanumeric and descriptive, meaning that they consist of numbers and letters which are symbolic of various aspects of the cable, and can be used to identify the complete cable construction in almost all cases. (Highly specialized cables may not have completely descriptive part numbers, due to their added complexity.) In the example below, “X” represents required characters, while “O” represents optional characters. Marmon IEI – Mount Pleasant, TX part numbers have a minimum of ten digits (including hyphens), but there is no maximum.

**X X X X – X X X X X – O O O ...**

Being able to understand Marmon IEI – Mount Pleasant, TX’s part numbers will come in very handy when viewing our website or browsing our catalog. Often times, knowing even a portion of the part number can prove very helpful. Marmon IEI – Mount Pleasant, TX part numbers can be divided into seven main sections, with the first two sections being some of the most significant. The following paragraphs will guide you through these sections, and provide you with a better understanding of Marmon IEI – Mount Pleasant, TX’s part numbers.

**X X X X – X X X X X – O O O ...**

The first section of a part number describes the cable and/or insulation type. The codes for this section are seen below:

- 17** = HDPE (High-Density Polyethylene)
- 18** = PVC (Polyvinyl Chloride) (TF, THW, THHW)
- 1C** = PVC/Nylon (TFN/THHN/THWN)
- 2X** = XLPE (Cross-Linked Polyethylene)
- 3X** = XLPE Meeting the Performance Requirements of the VW-1 Flame Test
- 4X** = XLPE Meeting the Performance Requirements of “ER”-Rated Cables
- HX** = XLPE-LSZH Meeting the Performance Requirements of VW-1 Flame Test
- XR** = Dekolene XR – XLPE, Used in Marine Shipboard Cables
- FB** = Fieldbus (XLPE)
- FP** = Fieldbus-ER (XLPE)
- 1S** = Silicone Alloy (Cross-Linked), Used in Dekafame® Fire Resistant Cables
- 2S** = Mica Tape XLPE-LSZH (Cross-Linked), Used in 600V-Rated Dekafame® Fire Resistant Cables
- 3S** = Mica Tape XLPE-LSZH (Cross-Linked), Used in 300V-Rated Dekafame® Fire Resistant Cables
- 6S** = Silicone Alloy (Cross-Linked)/Co-Polymer, Used in 600V UL-Rated Dekafame® Fire Resistant Cables
- 1T** = TPE (Thermoplastic Elastomer)
- CV** = Type CIC (Control & Instrumentation) & ACIC (Armored Control & Instrumentation)
- CX** = XLPE Meeting CSA TECK 90, Type CIC, or Type ACIC Requirements
- AX** = XLPE Meeting AS/NZS Requirements
- A8** = PVC Meeting AS/NZS Requirements
- AB** = Fieldbus (XLPE) Meeting AS/NZS Requirements

**X X X X – X X X X X – O O O ...**

The second section denotes the cable’s basic configuration, such as whether the cable is a control or instrumentation cable, if the cable is of a single-pair or multi-pair construction, if the cable is shielded, and if any armor is present. The codes for this section are seen in the table on the next page. In this table, the blue headings indicate the type of cable, while the bold subheadings indicate the general construction. The codes found below the bold subheadings denote the same cable construction, but with the addition of the listed armor.

**Thermocouple Extension Cable**

<b>00</b>	<b>Single Pair, Unshielded</b>
01	w/ Served Wire Armor
04	w/ Dekabon® Layer
06	w/ Interlocked Armor
0U	w/ Gardex® Armor
<b>02</b>	<b>Single Pair, Shielded</b>
03	w/ Served Wire Armor
05	w/ Dekabon® Layer
09	w/ Interlocked Armor
0W	w/ Gardex® Armor
<b>20</b>	<b>Multiple Pairs, Overall Shielding</b>
25	w/ Served Wire Armor
27	w/ Dekabon® Layer
21	w/ Interlocked Armor
2U	w/ Gardex® Armor
<b>24</b>	<b>Multiple Pairs, Individual &amp; Overall Shielding</b>
22	w/ Served Wire Armor
28	w/ Dekabon® Layer
26	w/ Interlocked Armor
2W	w/ Gardex® Armor

**Multiple Conductor Control Cable**

<b>35</b>	<b>Multiple Conductors, Jacketed Cable (All Except Type 1C)</b>
36	w/ Served Wire Armor
38	w/ Dekabon® Layer
37	w/ Interlocked Armor
3W	w/ Gardex® Armor
<b>99</b>	<b>Multiple Conductors, Jacketed Cable (Type 1C Insulation)</b>
97	w/ Served Wire Armor
98	w/ Dekabon® Layer
96	w/ Interlocked Armor
9W	w/ Gardex® Armor

**Instrumentation Cable**

<b>50</b>	<b>Single Pair, Unshielded</b>
51	w/ Served Wire Armor
54	w/ Dekabon® Layer
56	w/ Interlocked Armor
5U	w/ Gardex® Armor
<b>52</b>	<b>Single Pair, Shielded</b>
53	w/ Served Wire Armor
55	w/ Dekabon® Layer
59	w/ Interlocked Armor
5W	w/ Gardex® Armor
<b>60</b>	<b>Single Triad, Unshielded</b>
61	w/ Served Wire Armor
64	w/ Dekabon® Layer
66	w/ Interlocked Armor
6U	w/ Gardex® Armor
<b>62</b>	<b>Single Triad, Shielded</b>
63	w/ Served Wire Armor
65	w/ Dekabon® Layer
69	w/ Interlocked Armor
6W	w/ Gardex® Armor
<b>70</b>	<b>Multiple Pairs, Overall Shielding</b>
75	w/ Served Wire Armor
77	w/ Dekabon® Layer
71	w/ Interlocked Armor
7U	w/ Gardex® Armor
<b>74</b>	<b>Multiple Pairs, Individual &amp; Overall Shielding</b>
72	w/ Served Wire Armor
78	w/ Dekabon® Layer
76	w/ Interlocked Armor
7W	w/ Gardex® Armor
<b>80</b>	<b>Multiple Triads, Overall Shielding</b>
85	w/ Served Wire Armor
87	w/ Dekabon® Layer
81	w/ Interlocked Armor
8U	w/ Gardex® Armor
<b>84</b>	<b>Multiple Triads, Individual &amp; Overall Shielding</b>
82	w/ Served Wire Armor
88	w/ Dekabon® Layer
86	w/ Interlocked Armor
8W	w/ Gardex® Armor

XXXX – XXXXX – 000 ...

The next section will inform you of any modifications that have been applied to the armor, if any is present.

- = Default, No Additional Change or Modification
- A** = Aluminum Interlocked Armor (Rather than Galvanized Steel)
- M** = Metric-Sized Served Wire Armor (Rather than AWG-Sized)

**X X X X - X X X X X - 0 0 0 ...**

The fourth section denotes the size of the conductor *s*. The typical codes for various conductor sizes are listed below:

<b>0</b> = 20 AWG	<b>K</b> = 0.5 mm <sup>2</sup>
<b>2</b> = 22 AWG	<b>L</b> = 0.75 mm <sup>2</sup>
<b>4</b> = 14 AWG	<b>M</b> = 1.0 mm <sup>2</sup>
<b>5</b> = 10 AWG	<b>N</b> = 1.5 mm <sup>2</sup>
<b>6</b> = 16 AWG	<b>P</b> = 2.5 mm <sup>2</sup>
<b>7</b> = 12 AWG	<b>R</b> = 4.0 mm <sup>2</sup>
<b>8</b> = 18 AWG	
<b>B</b> = 10 AWG	

\*While these codes are accurate for most part numbers, these codes may change in specific applications, and are not inclusive of all available sizes.

**X X X X - X X X X X - 0 0 0 ...**

The fifth section of the part number varies slightly, depending on the cable's construction. For single-group cables, such as a single-pair instrumentation cable, the fifth section consists of only one character. This section denotes the type of conductor material used in the cable, such as bare or tin-coated copper, or thermocouple type.

**X X X X - X X X X X - 0 0 0 ...**

For multi-group and multi-conductor cables, such as a control cable, the fifth section is comprised of two characters, and represents the number of conductors or groups of conductors present, depending on the cable's construction. Two digits are always used, even for single-digit group or conductor counts. (The digits "02" in this section would indicate that there are 2 conductors or conductor groups. Seeing the digits "24" would indicate the presence of 24 conductors or groups.)

The remaining required digits make up the sixth section of the part number. This section could be either two or three characters long, depending on the construction, and is used to denote the thickness of insulation, the type of drain wire, shielding, and/or tape (or lack thereof), and the jacket material and thickness.

**X X X X - X X X X X - 0 0 0 ...**

The final section of a part number is optional, and may or may not be present. It begins with the eleventh character, and can be of various lengths. This section typically begins with a hyphen, and is used to denote custom constructions, special conductor and/or jacket color codes, the presence of additional grounding conductors, or special markings and/or voltage ratings, as well as many other things. In most cases, the information needed to determine the basic cable construction characteristics can be found in the first few sections.

Still have questions? Give our Customer Service team a call, and we can provide you with all the information you need!

**Marmon Industrial Energy & Infrastructure**  
1300 Industrial Road, Mt. Pleasant, Texas 75455  
**903.572.3475**  
[www.marmoniei.com](http://www.marmoniei.com)