



# PRODUCT DATA SHEET

6655 Beta Drive, Ste. 200  
 Mayfield Village, OH 44143  
 www.marselectric.com | (440) 946-2250

<b>Part Number:</b>	<b>MWC GEN-1/3VN189ALUM 1G/3C + #6</b>
<b>Description:</b>	<b>1 AWG Stranded AA-8000 Series Aluminum 3-Conductor THWN + 6 AWG Stranded AA-8000 Series Aluminum 1-Conductor THWN + 18 AWG Stranded Bare Copper 9 TFFN CDRS; Overall Sunlight-Resistant, Direct-Burial, PVC Jacket; Rated (UL) TYPE TC-ER-JP</b>
<b>Suitable Application(s):</b>	<b>Power Supply Tray Cable, Generator Cable (17kW - 24kW)</b>

**Construction Details:**

1 AWG THWN-2		6AWG THWN-2	
Total Number of Conductors	3	Total Number of Conductors	1
Conductor Material	1AWG 19-Strand Aluminum	Conductor Material	6 AWG 7-Strand Aluminum
Insulation Material	Polyvinyl chloride 0.050"	Insulation Material	Polyvinyl chloride
Insulation Thickness	0.050"	Insulation Thickness	0.030"
Nylon Thickness	0.007"	Nylon Thickness	0.005"
Nominal Diameter over Ins. CDR	0.413"	Nominal Diameter over Ins. CDR	0.239"
Conductor Color Code	BK, RD, WH	Conductor Color Code	GN
18 AWG TFFN		Overall Assembly	
Total Number of Conductors	9	Fillers	As needed to make round
Conductor Material	18 AWG 16-Strand Bare Copper	Cabling Overall Lay	14.00" Left-Hand Lay
Insulation Material	Polyvinyl chloride	Tape Material	Clear Mylar
Insulation Thickness	0.015"	Final Jacket Material	Polyvinyl chloride
Nylon Thickness Nominal	0.005"	Final Jacket Thickness	0.080"
Nominal Diameter over Ins. CDR	0.086"	Nominal Diameter over Final Jacket	1.137"
Conductor Color Code	BK, WH, RD, YE, BE, PU, YEBK, PUBK, WHBE	Jacket Color	Black (other colors available)

**Print Details:**

Inkjet Yes  
 Sequential Footage Marking Yes

**Sample Print Legend:**

**1 AWG (42.4 mm<sup>2</sup>) AL 3/C + 6 AWG (13.3 mm<sup>2</sup>) AL 1/C GROUND TYPE THWN-2/VW-1 CDRS + 18 AWG (0.82 mm<sup>2</sup>) 9/C TYPE TFFN 600V 90C WET OR DRY (UL) TYPE TC-ER-JP SUN RES DIR BUR FT4/IEEE1202 E195597 ROHS MADE IN USA 17kW-24kW**

Applicable Standards and Ratings			
<b>Voltage Rating</b>	600V	<b>UL Type(s)</b>	TC-ER-JP (UL1277), THWN-2 (UL83), TFFN (UL66)
<b>Temperature Rating</b>	-39C to + 90C	<b>ROHS Compliant</b>	Yes

BK, WH, RD in one of the interstices.  
 BE, WHBE in one of the interstices.  
 PU, PUBK in one of the interstices.  
 YE, YEBK in one of the interstices.

**Customer Approval Signature:** \_\_\_\_\_  
**Customer Name:** \_\_\_\_\_  
**Specification Issue Date:** 05/12/2023

**Date:** \_\_\_\_\_