## TS Martin M3 7 (0.927) 738



Governing Units: Metric

Mechanical Specifications   Metric   Imperial	Governing Units: Metric					
Encapsulated Aluminum Cross-Sectional Area   70.87   mm²   0.10986   in²	Mechanical Specifications			Imperial		
Diameter of Composite Core (Exclude Encapsulation)         7.0         mm         0.27600         in           Cross-sectional Area of Core (Exclude Encapsulation)         38.50         mm²         0.05965         in²           Overall Diameter of Conductor         23.546         mm         0.927         in           Cross-sectional Area of the Conductor (Exclude Covering)         412.60         mm²         0.63954         in²           Ultimate Tensile Strength of Conductor 1), 2)         128.15         kN         28.81         klp           Rated Strength of Core - 399 ksi (2750 MPa)         105.78         kN         23.78         klp           Core Mass per unit length (Exclude Encapsulation)         67.00         kg/km         45.03         lb/kft           Conductor Mass per unit length         1093.66         kg/km         735.03         lb/kft           Fully Annealed AlMass per unit length (Include Encapsulation)**         10266.66         kg/km         690.00         lb/kft           Fully Annealed AlMass per unit length (Include Encapsulation)***         10266.66         kg/km         690.00         lb/kft           Fully Annealed AlMass per unit length (Include Encapsulation)***         10266.66         kg/km         690.00         lb/kft           Fully Annealed AlMass per unit length         10266	· ·					
Cross-sectional Area of Core (Exclude Encapsulation)   38.50   mm²   0.05965   in²	·		mm <sup>2</sup>		in⁴	
Overall Diameter of Conductor         23.546         mm         0.927         in           Cross-sectional Area of the Conductor (Exclude Covering)         412.60         mm²         0.63954         in²           Ultimate Tensile Strength of Corductor 1), 2)         128.15         kN         28.81         kip           Rated Strength of Core - 399 ksi (2750 MPa)         105.78         kN         23.78         kip           Core Mass per unit length (Exclude Encapsulation)         67.00         kg/km         45.03         lb/kft           Conductor Mass per unit length (Include Encapsulation)**         1093.66         kg/km         45.03         lb/kft           Conductor Mass per unit length (Include Encapsulation)**         1026.66         kg/km         45.03         lb/kft           Condicion of Linear Expansion Above Thermal Kneepoint (core)         0.500         x10°PC         392         °F           Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10°PC         0.278         x10°PC           Coefficient of Linear Expansion Below Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Above Thermal Kneepoint (based on conductor area)         150.0         GPa         21.8         Msi           Final M		7.0		0.27600		
Access sectional Area of the Conductor (Exclude Covering)	Cross-sectional Area of Core (Exclude Encapsulation)	38.50	mm <sup>2</sup>	0.05965	in <sup>2</sup>	
Ultimate Tensile Strength of Conductor 1),2    128.15 kN   28.81 kip	Overall Diameter of Conductor	23.546		0.927		
Rated Strength of Core - 399 ksi (2750 MPa)	Cross-sectional Area of the Conductor (Exclude Covering)	412.60	mm²	0.63954	in <sup>2</sup>	
Core Mass per unit length (Exclude Encapsulation)         67.00         kg/km         45.03         lb/kft           Conductor Mass per unit length         1093.66         kg/km         735.03         lb/kft           Fully Annealed AlMass per unit length (Include Encapsulation)**         1026.66         kg/km         690.00         lb/kft           Maximum Emergency Temperature at Surface 3)         200         °C         392         °F           Coefficient of Linear Expansion Above Thermal Kneepoint (core)         0.500         x10°5/°C         0.278         x10°5/°F           Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10°5/°C         10.081         x10°5/°F           Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         watts/m²***         96.0         Watts/m²**         9.6         Watts/ft***F           Core Heat Capacity         56.9         watts/m²***         9.6         Watts-/ft***F         Watts-/ft***F         P         encapsulation Thickness         2.40         mm         0.09449         in	Ultimate Tensile Strength of Conductor 1) ,2)	128.15	kN	28.81	kip	
Conductor Mass per unit length         1093.66         kg/km         735.03         lb/kft           Fully Annealed AlMass per unit length (Include Encapsulation)**         1026.66         kg/km         690.00         lb/kft           Maximum Emergency Temperature at Surface 3)         200         °C         392         °F           Coefficient of Linear Expansion Above Thermal Kneepoint (core)         0.500         x10.6°/c         0.278         x10.6°/c           Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10.6°/c         10.081         x10.0°/c           Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         Watt-s/m-**C         162.4         watt-	Rated Strength of Core - 399 ksi (2750 MPa)	105.78	kN	23.78	kip	
Fully Annealed AllMass per unit length (Include Encapsulation)**  Maximum Emergency Temperature at Surface 3)  Coefficient of Linear Expansion Above Thermal Kneepoint (core)  Coefficient of Linear Expansion Below Thermal Kneepoint (core)  Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)  Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)  Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)  Aluminum Heat Capacity  Core Heat Capacity  Core Heat Capacity  Stranding Ratio  Covered Thickness  Covered Thickness  Covered Thickness  DC Resistance at 20°C (Fully Annealed Al 63% IACS)  DC Resistance at 75°C  DC Resistance at 75°C  Conductor All Surfaces (Sacrated Al 60°C)  AC Resistance at 25°C  Conductor All Surfaces (Sacrated Al 60°C)  AC Resistance at 25°C  Covered Thickness	Core Mass per unit length (Exclude Encapsulation)	67.00	kg/km	45.03	lb/kft	
Maximum Emergency Temperature at Surface 3)         200         °C         392         °F           Coefficient of Linear Expansion Above Thermal Kneepoint (core)         0.500         x10°6/°C         0.278         x10°6/°F           Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10°6/°C         10.081         x10°6/°F           Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         watt-s/m⁻°C         162.4         watt-s/m⁻°C         162.4         watt-s/m⁻°C         9.6         watt-s/m⁻°C         9.0         <	Conductor Mass per unit length	1093.66	kg/km	735.03	lb/kft	
Coefficient of Linear Expansion Above Thermal Kneepoint (core)         0.500         x10 % C         0.278         x10 % F           Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10 % C         10.081         x10 % F           Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         Watt-s/m-°C         162.4         Watt-s/ft-°F           Core Heat Capacity         56.9         Watt-s/m-°C         9.6         Watt-s/ft-°F           Encapsulation Thickness         2.40         mm         0.09449         in           Stranding Ratio         1.0215         In         In           Covered Thickness         0.000         mm         0.000         in           Electrical Specifications         Metric         Imperial         Imperial           DC Resistance at 25°C         0.0744         ohm/km         0.1198         ohm/mile           DC Resistance at 25°C         0.0911         ohm/km         0.1466         ohm/mile           Temperature Coefficient of Resistance at 25°C	Fully Annealed AlMass per unit length (Include Encapsulation)**	1026.66		690.00		
Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)         18.146         x10°6/°C         10.081         x10°6/°F           Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         Watt-s/m-°C         162.4         Watt-s/ft-°F           Core Heat Capacity         56.9         Watt-s/m-°C         9.6         Watt-s/ft-°F           Encapsulation Thickness         2.40         mm         0.09449         in           Stranding Ratio         1.0215	Maximum Emergency Temperature at Surface 3)	200	°C	392	°F	
Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)         150.0         GPa         21.8         Msi           Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)         64.4         GPa         9.3         Msi           Aluminum Heat Capacity         959.0         watt-s/m-°C         162.4         watt-s/ft-°F           Core Heat Capacity         56.9         watt-s/m-°C         9.6         watt-s/ft-°F           Encapsulation Thickness         2.40         mm         0.09449         in           Stranding Ratio         1.0215	Coefficient of Linear Expansion Above Thermal Kneepoint (core)	0.500	x10 <sup>-6</sup> /°C	0.278	x10 <sup>-6</sup> /°F	
Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)   64.4   GPa   9.3   Msi	Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)	18.146	x10 <sup>-6</sup> /°C	10.081	x10 <sup>-6</sup> /°F	
Aluminum Heat Capacity	Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)	150.0	GPa	21.8	Msi	
Core Heat Capacity         56.9         watt-s/m²⁻C         9.6         watt-s/ft²⁻²F           Encapsulation Thickness         2.40         mm         0.09449         in           Stranding Ratio         1.0215	Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)	64.4	GPa	9.3	Msi	
Encapsulation Thickness   2.40   mm   0.09449   in	Aluminum Heat Capacity	959.0	Watt-s/m-°C	162.4	Watt-s/ft-°F	
Stranding Ratio         1.0215         Image: content of the content o	Core Heat Capacity	56.9	Watt-s/m-°C	9.6	Watt-s/ft-°F	
Covered Thickness         0.000         mm         0.000         in           Electrical Specifications         Metric         Imperial           DC Resistance at 20°C (Fully Annealed AI 63% IACS)         0.0744         ohm/km         0.1198         ohm/mile           DC Resistance at 25°C         0.0759         ohm/km         0.1222         ohm/mile           DC Resistance at 75°C         0.0911         ohm/km         0.1466         ohm/mile           Temperature Coefficient of Resistance at 20°C         0.00408         1/°C         0.00227         1/°F           Frequency         60         Hz         60         Hz           AC Resistance at 25°C         0.0770         ohm/km         0.1239         ohm/mile           AC Resistance at 75°C         0.0920         ohm/km         0.1480         ohm/mile           AC Resistance at 180°C         0.1235         ohm/km         0.1988         ohm/mile           Ampacity 4)         1432         @180°C, & A           GMR (estimated)         9.50         mm         0.0312         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615         ohm/km         0.421         ohm/mile	Encapsulation Thickness	2.40	mm	0.09449	in	
Electrical Specifications         Metric         Imperial           DC Resistance at 20°C (Fully Annealed Al 63% IACS)         0.0744 ohm/km         0.1198 ohm/mile           DC Resistance at 25°C         0.0759 ohm/km         0.1222 ohm/mile           DC Resistance at 75°C         0.0911 ohm/km         0.1466 ohm/mile           Temperature Coefficient of Resistance at 20°C         0.00408 1/°C 0.00227 1/°F           Frequency         60 Hz 60 Hz         60 Hz           AC Resistance at 25°C         0.0770 ohm/km 0.1239 ohm/mile         0.1239 ohm/mile           AC Resistance at 75°C         0.0920 ohm/km 0.1480 ohm/mile         0.1480 ohm/mile           AC Resistance at 180°C         0.1235 ohm/km 0.1988 ohm/mile         0.1988 ohm/mile           Ampacity 4)         1432 @180°C, & A         200°C, & A           GMR (estimated)         9.50 mm 0.0312 ft         ohm/km 0.421 ohm/mile           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615 ohm/km 0.421 ohm/mile	Stranding Ratio	1.0215				
DC Resistance at 20°C (Fully Annealed Al 63% IACS)       0.0744       ohm/km       0.1198       ohm/mile         DC Resistance at 25°C       0.0759       ohm/km       0.1222       ohm/mile         DC Resistance at 75°C       0.0911       ohm/km       0.1466       ohm/mile         Temperature Coefficient of Resistance at 20°C       0.00408       1/°C       0.00227       1/°F         Frequency       60       Hz       60       Hz         AC Resistance at 25°C       0.0770       ohm/km       0.1239       ohm/mile         AC Resistance at 75°C       0.0920       ohm/km       0.1480       ohm/mile         AC Resistance at 180°C       0.1235       ohm/km       0.1988       ohm/mile         Ampacity 4)       1432       @180°C, & A         GMR (estimated)       9.50       mm       0.0312       ft         Inductive Reactance (Xa: internal flux+external flux radius 1 ft)       0.2615       ohm/km       0.421       ohm/mile	Covered Thickness	0.000	mm	0.000	in	
DC Resistance at 25°C         0.0759         ohm/km         0.1222         ohm/mile           DC Resistance at 75°C         0.0911         ohm/km         0.1466         ohm/mile           Temperature Coefficient of Resistance at 20°C         0.00408         1/°C         0.00227         1/°F           Frequency         60         Hz         60         Hz           AC Resistance at 25°C         0.0770         ohm/km         0.1239         ohm/mile           AC Resistance at 75°C         0.0920         ohm/km         0.1480         ohm/mile           AC Resistance at 180°C         0.1235         ohm/km         0.1988         ohm/mile           Ampacity 4)         1432         @180°C, & A           GMR (estimated)         9.50         mm         0.0312         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615         ohm/km         0.421         ohm/mile	Electrical Specifications	Me	Metric		Imperial	
DC Resistance at 75°C         0.0911         ohm/km         0.1466         ohm/mile           Temperature Coefficient of Resistance at 20°C         0.00408         1/°C         0.00227         1/°F           Frequency         60         Hz         60         Hz           AC Resistance at 25°C         0.0770         ohm/km         0.1239         ohm/mile           AC Resistance at 75°C         0.0920         ohm/km         0.1480         ohm/mile           AC Resistance at 180°C         0.1235         ohm/km         0.1988         ohm/mile           Ampacity 4)         1432         @180°C, & A         end         0.000°C, & A         end         end <td< td=""><td>DC Resistance at 20°C (Fully Annealed Al 63% IACS)</td><td>0.0744</td><td>ohm/km</td><td>0.1198</td><td>ohm/mile</td></td<>	DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.0744	ohm/km	0.1198	ohm/mile	
Temperature Coefficient of Resistance at 20°C         0.00408         1/°C         0.00227         1/°F           Frequency         60         Hz         60         Hz           AC Resistance at 25°C         0.0770         ohm/km         0.1239         ohm/mile           AC Resistance at 75°C         0.0920         ohm/km         0.1480         ohm/mile           AC Resistance at 180°C         0.1235         ohm/km         0.1988         ohm/mile           Ampacity 4)         1432         @180°C, & A           GMR (estimated)         9.50         mm         0.0312         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615         ohm/km         0.421         ohm/mile	DC Resistance at 25°C	0.0759	ohm/km	0.1222	ohm/mile	
Frequency         60         Hz         60         Hz           AC Resistance at 25°C         0.0770         ohm/km         0.1239         ohm/mile           AC Resistance at 75°C         0.0920         ohm/km         0.1480         ohm/mile           AC Resistance at 180°C         0.1235         ohm/km         0.1988         ohm/mile           Ampacity 4)         1432         @180°C, & A           GMR (estimated)         9.50         mm         0.0312         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615         ohm/km         0.421         ohm/mile	DC Resistance at 75°C	0.0911	ohm/km	0.1466	ohm/mile	
AC Resistance at 25°C 0.0770 ohm/km 0.1239 ohm/mile AC Resistance at 75°C 0.0920 ohm/km 0.1480 ohm/mile AC Resistance at 180°C 0.1235 ohm/km 0.1988 ohm/mile Ampacity 4) 1432 @180°C, & A  GMR (estimated) 9.50 mm 0.0312 ft Inductive Reactance (Xa: internal flux+external flux radius 1 ft) 0.2615 ohm/km 0.421 ohm/mile	Temperature Coefficient of Resistance at 20°C	0.00408	1/°C	0.00227	1/°F	
AC Resistance at 75°C 0.0920 ohm/km 0.1480 ohm/mile AC Resistance at 180°C 0.1235 ohm/km 0.1988 ohm/mile Ampacity 4) 1432 @180°C, & A  GMR (estimated) 9.50 mm 0.0312 ft  Inductive Reactance (Xa: internal flux+external flux radius 1 ft) 0.2615 ohm/km 0.421 ohm/mile	Frequency	60	Hz	60	Hz	
AC Resistance at 180°C  Ampacity 4)  Comparison of the distribution of the distributi	AC Resistance at 25°C	0.0770	ohm/km	0.1239	ohm/mile	
Ampacity 4)	AC Resistance at 75°C	0.0920	ohm/km	0.1480	ohm/mile	
Ampacity 4)         1508         @200°C, & A           GMR (estimated)         9.50         mm         0.0312         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2615         ohm/km         0.421         ohm/mile	AC Resistance at 180°C	0.1235	ohm/km			
GMR (estimated)  Inductive Reactance (Xa: internal flux+external flux radius 1 ft)  1508 @200°C, & A  9.50 mm 0.0312 ft  0.2615 ohm/km 0.421 ohm/mile	Ampacity 4)		1432	@180°C, & A		
Inductive Reactance (Xa: internal flux+external flux radius 1 ft)  0.2615 ohm/km  0.421 ohm/mile			1508	@200	°C, & A	
	GMR (estimated)	9.50	mm	0.0312	ft	
Capacitive Reactance 0.1553 Mohm-km 0.097 Mohm-mile	Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2615	ohm/km	0.421	ohm/mile	
	Capacitive Reactance	0.1553	Mohm-km	0.097	Mohm-mile	

<sup>\*</sup>TS Martin M3 7 (0.927) 738 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaelnt area is 374.1 sq. mm (738.3 kcmil)

The information contained herein is offered in good faith. All values are nominal unless specifically indicated as maximum or minimum. The actual configuration of a given size may vary between conductor manufacturers and may result in slight variations in some of the indicated values. Data herein is to be considered confidential and proprietary to TS Conductor

contact: info@tsconductor.com ID:26273 Date Produced: 12/5/2023

<sup>\*\*</sup>TS® Conductors are required to exhibit lay lengths (ratios) that conform to established ACSR and ACSS standards.

<sup>1)</sup> Fully Annealed AI rated tensile strength based on applicable standard. Core tensile strength based on 100% of its strength.

<sup>2)</sup> Strength at ambient temperature, Strength may be reduced to Rated Core Strength when temperature is above knee point

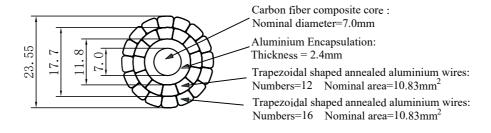
<sup>3)</sup> Maximum continuous operating temperature of TS Martin M3 7 (0.927) 738 is 180°C and a maximum emergency temperature of 200°C

<sup>4).</sup> Ampacity based on: 25°C ambient temperature, 2ft/s (0.6 m/s) perpendicular wind, 0.5 Emis 0.5 Absorb.60 Hz, sea level (0) elevation, 30°N line Azimuth, noon on June 10th (96W/sq.ft, 1033W/sq.m), clear atmosphere

Unit is mm

# TS Conductor Cross sectional drawing for customers

#### Expected value at production time



TS Martin M3 7 (0.927) ID:26273 TS Martin M3 7 (23.546) IEC ID:26280 TS Martin M3 7 (23.546) Al-Zr ID: 29549

# TS Conductor Corp.

TS Martin M3 7 ID:26273

Design
Check
Ratify

## TS Martin M3 7 (23.546) IEC 738



Governing Units: Metric

Governing Units: Metric					
Mechanical Specifications	Metric		Imperial		
Fully Annealed Al Cross-sectional Area*	374.12	mm <sup>2</sup>	738.31	kcmil	
Encapsulated Aluminum Cross-Sectional Area	70.87	mm <sup>2</sup>	0.10986	in <sup>2</sup>	
Diameter of Composite Core (Exclude Encapsulation)	7.0	mm	0.27600	in	
Cross-sectional Area of Core (Exclude Encapsulation)	38.50	mm <sup>2</sup>	0.05965	in <sup>2</sup>	
Overall Diameter of Conductor	23.546	mm	0.927	in	
Cross-sectional Area of the Conductor (Exclude Covering)	412.60	mm <sup>2</sup>	0.63954	in <sup>2</sup>	
Ultimate Tensile Strength of Conductor 1) ,2)	128.15	kN	28.81	kip	
Rated Strength of Core - 399 ksi (2750 MPa)	105.78	kN	23.78	kip	
Core Mass per unit length (Exclude Encapsulation)	67.00	kg/km	45.03	lb/kft	
Conductor Mass per unit length	1093.66	kg/km	735.03	lb/kft	
Fully Annealed AlMass per unit length (Include Encapsulation)**	1026.66	kg/km	690.00	lb/kft	
Maximum Emergency Temperature at Surface 3)	200	°C	392	°F	
Coefficient of Linear Expansion Above Thermal Kneepoint (core)	0.500	x10 <sup>-6</sup> /°C	0.278	x10 <sup>-6</sup> /°F	
Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)	18.146	x10 <sup>-6</sup> /°C	10.081	x10 <sup>-6</sup> /°F	
Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)	150.0	GPa	21.8	Msi	
Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)	64.4	GPa	9.3	Msi	
Aluminum Heat Capacity	959.0	Watt-s/m-°C	162.4	Watt-s/ft-°F	
Core Heat Capacity	56.9	Watt-s/m-°C	9.6	Watt-s/ft-°F	
Encapsulation Thickness	2.40	mm	0.09449	in	
Stranding Ratio	1.0215				
Covered Thickness	0.000	mm	0.000	in	
Electrical Specifications	Me	Metric		Imperial	
DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.0744	ohm/km	0.1198	ohm/mile	
DC Resistance at 25°C	0.0759	ohm/km	0.1222	ohm/mile	
DC Resistance at 75°C	0.0911	ohm/km	0.1466	ohm/mile	
Temperature Coefficient of Resistance at 20°C	0.00408	1/°C	0.00227	1/°F	
Frequency	50	Hz	50	Hz	
AC Resistance at 25°C	0.0767	ohm/km	0.1234	ohm/mile	
AC Resistance at 75°C	0.0917	ohm/km	0.1476	ohm/mile	
AC Resistance at 180°C	0.1234	ohm/km	0.1985	ohm/mile	
Ampacity 4)		1432	@180°C, & A		
		1509	@200	°C, & A	
GMR (estimated)	9.50	mm	0.0312	ft	
Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2180	ohm/km	0.351	ohm/mile	
Capacitive Reactance	0.1864	Mohm-km	0.116	Mohm-mile	

<sup>\*</sup>TS Martin M3 7 (23.546) IEC 738 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaeInt area is 374.1 sq. mm (738.3 kcmil)

The information contained herein is offered in good faith. All values are nominal unless specifically indicated as maximum or minimum. The actual configuration of a given size may vary between conductor manufacturers and may result in slight variations in some of the indicated values. Data herein is to be considered confidential and proprietary to TS Conductor

contact: info@tsconductor.com ID:26280 Date Produced: 1/4/2024

<sup>\*\*</sup>TS® Conductors are required to exhibit lay lengths (ratios) that conform to established ACSR and ACSS standards.

<sup>1)</sup> Fully Annealed Al rated tensile strength based on applicable standard. Core tensile strength based on 100% of its strength.

<sup>2)</sup> Strength at ambient temperature, Strength may be reduced to Rated Core Strength when temperature is above knee point

<sup>3)</sup> Maximum continuous operating temperature of TS Martin M3 7 (23.546) IEC 738 is 180°C and a maximum emergency temperature of 200°C

<sup>4).</sup> Ampacity based on: 25°C ambient temperature, 2ft/s (0.6 m/s) perpendicular wind, 0.5 Emis 0.5 Absorb.50 Hz, sea level (0) elevation, 30°N line Azimuth, noon on June 10th (96W/sq.ft, 1033W/sq.m), clear atmosphere