### TS Forelien M3 6 (0.72) 438



Governing Units: Metric

Fully Annealed Al Cross-sectional Area   221.96   mm²   438.03   kcmil	Governing Units: Metric				
Encapsulated Aluminum Cross-Sectional Area   56.67   mm²   0.08785   in²   Diameter of Composite Core (Exclude Encapsulation)   6.0   mm   0.23600   in   0.270css-sectional Area of Core (Exclude Encapsulation)   28.30   mm²   0.04383   in²   0.0448   in²   0.04383   in²   0.0448   in²   0.04383   in²   0.0448   in²   0.04383   in²   0.04383   in²   0.04383   in²   0.0448   in²   0.04383   in²   0.0448   in²   0.04383   in²   0.04383   in²   0.0448   in²   0.04383   0.04383   0.04383   0.04383   0.04383   0.04383   0.04383   0.04383   0.04383   0.0438	Mechanical Specifications			Imperial	
Diameter of Composite Core (Exclude Encapsulation)   6.0 mm   0.23600 in	Fully Annealed Al Cross-sectional Area*	221.96	mm <sup>2</sup>	438.03	
Cross-sectional Area of Core (Exclude Encapsulation)   28.30   mm²   0.04383   in²	Encapsulated Aluminum Cross-Sectional Area	56.67	mm <sup>2</sup>	0.08785	in <sup>2</sup>
Description   18.288 mm   0.720 in   18.288 mm   0.720 in   18.288 mm   0.720 in   18.288 mm   0.38786 in   18.288 mm   0.3878 mm   0.3878 mm   0.3878 mm   0.3878 mm   0.3878 mm   0.3878 mm   0.	Diameter of Composite Core (Exclude Encapsulation)	6.0	mm	0.23600	
250.20 mm²	Cross-sectional Area of Core (Exclude Encapsulation)	28.30	mm <sup>2</sup>	0.04383	in <sup>2</sup>
Substitute   Strength of Conductor   1,2   91.37 kN   20.54 kip	Overall Diameter of Conductor	18.288	mm	0.720	
Ultimate Tensile Strength of Conductor 1),2   91.37 kN   20.54 kip	Cross-sectional Area of the Conductor (Exclude Covering)	250.20	mm <sup>2</sup>	0.38786	in²
Rated Strength of Core - 399 ksi (2750 MPa)   77.80 kN   17.49 kip	Ultimate Tensile Strength of Conductor 1) ,2)	91.37	kN	20.54	kip
Conductor Mass per unit length   657.55   kg/km   441.93   lb/kft	Rated Strength of Core - 399 ksi (2750 MPa)	77.80	kN	17.49	kip
Fully Annealed AlMass per unit length (Include Encapsulation)**   608.55   kg/km   409.00   lb/kft	Core Mass per unit length (Exclude Encapsulation)	49.00	kg/km	32.93	lb/kft
Fully Annealed AlMass per unit length (Include Encapsulation)**   608.55   kg/km   409.00   lb/kft	Conductor Mass per unit length	657.55	kg/km	441.93	lb/kft
Coefficient of Linear Expansion Above Thermal Kneepoint (core)   0.500   x10°6°C   0.278   x10°6°F	Fully Annealed AlMass per unit length (Include Encapsulation)**	608.55		409.00	
Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)   17.316	Maximum Emergency Temperature at Surface 3)	200		392	
Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)   150.0   GPa   21.8   Msi	Coefficient of Linear Expansion Above Thermal Kneepoint (core)	0.500		0.278	
Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)   66.7   GPa   9.7   Msi	Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)	17.316	x10 <sup>-6</sup> /°C	9.620	x10 <sup>-6</sup> /°F
Aluminum Heat Capacity 569.0 Watt-s/m-°C 96.3 Watt-s/ft-°F Core Heat Capacity 41.8 Watt-s/m-°C 7.1 Watt-s/ft-°F Encapsulation Thickness 2.20 mm 0.08661 in Stranding Ratio 1.0200 Covered Thickness 0.000 mm 0.000 in Electrical Specifications Wetric Imperial DC Resistance at 20°C (Fully Annealed AI 63% IACS) 0.1251 ohm/km 0.2014 ohm/mile DC Resistance at 25°C 0.1277 ohm/km 0.2055 ohm/mile DC Resistance at 75°C 0.1532 ohm/km 0.2466 ohm/mile Temperature Coefficient of Resistance at 20°C (50 Hz 60 H	Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)	150.0	GPa	21.8	Msi
Core Heat Capacity         41.8         Watt-s/m²C         7.1         Watt-s/ft-²F           Encapsulation Thickness         2.20         mm         0.08661         in           Stranding Ratio         1.0200         mm         0.000         in           Covered Thickness         0.000         mm         0.000         in           DC Resistance at 20°C (Fully Annealed Al 63% IACS)         0.1251         ohm/km         0.2014         ohm/mile           DC Resistance at 25°C         0.1277         ohm/km         0.2055         ohm/mile           DC Resistance at 75°C         0.1532         ohm/km         0.2466         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         0.1282         ohm/km         0.2064         ohm/mile           AC Resistance at 75°C         0.1537         ohm/km         0.2473         ohm/mile           AC Resistance at 180°C         0.2071         ohm/km         0.3333         ohm/mile           Ampacity 4)         1023         @180°C, & A           GMR (estimated)         7.43         mm <td< td=""><td>Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)</td><td>66.7</td><td>GPa</td><td>9.7</td><td>Msi</td></td<>	Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)	66.7	GPa	9.7	Msi
2.20 mm   0.08661 in	Aluminum Heat Capacity	569.0	Watt-s/m-°C		Watt-s/ft-°F
Stranding Ratio   1.0200	Core Heat Capacity	41.8	Watt-s/m-°C	7.1	Watt-s/ft-°F
December   Covered Thickness   December   December   Covered Thickness   December   De	Encapsulation Thickness	2.20	mm	0.08661	in
Metric   Imperial	Stranding Ratio	1.0200			
DC Resistance at 20°C (Fully Annealed AI 63% IACS)         0.1251         ohm/km         0.2014         ohm/mile           DC Resistance at 25°C         0.1277         ohm/km         0.2055         ohm/mile           DC Resistance at 75°C         0.1532         ohm/km         0.2466         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         0.1282         ohm/km         0.2064         ohm/mile           AC Resistance at 75°C         0.1537         ohm/km         0.2473         ohm/mile           AC Resistance at 180°C         0.2071         ohm/km         0.3333         ohm/mile           Ampacity 4)         1023         @180°C, & A           GMR (estimated)         7.43         mm         0.0244         ft           Inductive Reactance (Xa: internal flux+external flux radius 1 ft)         0.2801         ohm/km         0.451         ohm/mile	Covered Thickness				
DC Resistance at 25°C   0.1277   ohm/km   0.2055   ohm/mile	Electrical Specifications	Metric		Imperial	
DC Resistance at 75°C   0.1532   0hm/km   0.2466   0hm/mile	DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.1251	ohm/km	0.2014	ohm/mile
Temperature Coefficient of Resistance at 20°C   0.00408   1/°C   0.00227   1/°F	DC Resistance at 25°C		ohm/km		ohm/mile
Frequency   60	DC Resistance at 75°C				
AC Resistance at 25°C 0.1282 ohm/km 0.2064 ohm/mile AC Resistance at 75°C 0.1537 ohm/km 0.2473 ohm/mile AC Resistance at 180°C 0.2071 ohm/km 0.3333 ohm/mile 1023 @180°C, & A 1076 @200°C, & A GMR (estimated) 7.43 mm 0.0244 ft Inductive Reactance (Xa: internal flux+external flux radius 1 ft) 0.2801 ohm/km 0.451 ohm/mile	Temperature Coefficient of Resistance at 20°C				
AC Resistance at 75°C 0.1537 ohm/km 0.2473 ohm/mile AC Resistance at 180°C 0.2071 ohm/km 0.3333 ohm/mile 0.3071 ohm/mile	Frequency				
AC Resistance at 180°C 0.2071 ohm/km 0.3333 ohm/mile  Ampacity 4) 1023 @180°C, & A  1076 @200°C, & A  GMR (estimated) 7.43 mm 0.0244 ft  Inductive Reactance (Xa: internal flux+external flux radius 1 ft) 0.2801 ohm/km 0.451 ohm/mile	AC Resistance at 25°C				-
Ampacity 4) 1023 @180°C, & A 1076 @200°C, & A 1076 @200°C, & A Government of the first of the fi	AC Resistance at 75°C		ohm/km		ohm/mile
Ampacity 4) 1076 @200°C, & A  GMR (estimated) 7.43 mm 0.0244 ft  Inductive Reactance (Xa: internal flux+external flux radius 1 ft) 0.2801 ohm/km 0.451 ohm/mile	AC Resistance at 180°C	0.2071			
1076 @200°C, & A	Ampacity 4)				
nductive Reactance (Xa: internal flux+external flux radius 1 ft)  0.2801 ohm/km  0.451 ohm/mile	Turpuoty = 1		1076		1
	GMR (estimated)		mm		
Capacitive Reactance 0.1674 Mohm-km 0.104 Mohm-mile	Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2801	ohm/km	0.451	ohm/mile
	Capacitive Reactance	0.1674	Mohm-km	0.104	Mohm-mile

<sup>\*</sup>TS Forelien M3 6 (0.72) 438 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaeInt area is 222 sq. mm (438 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:26213 Date Produced: 12/22/2023

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

<sup>1)</sup> Fully Annealed 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 Forelien M3 6 (0.72) 438 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

### TS Forelien M3 6 (18.288) IEC 438



Governing Units: Metric

Governing Units: Metric				
Mechanical Specifications	Metric		Imperial	
Fully Annealed Al Cross-sectional Area*	221.96	mm <sup>2</sup>	438.03	kcmil
Encapsulated Aluminum Cross-Sectional Area	56.67	mm <sup>2</sup>	0.08785	in <sup>2</sup>
Diameter of Composite Core (Exclude Encapsulation)	6.0	mm	0.23600	in
Cross-sectional Area of Core (Exclude Encapsulation)	28.30	mm <sup>2</sup>	0.04383	in <sup>2</sup>
Overall Diameter of Conductor	18.288	mm	0.720	in
Cross-sectional Area of the Conductor (Exclude Covering)	250.20	mm <sup>2</sup>	0.38786	in <sup>2</sup>
Ultimate Tensile Strength of Conductor 1) ,2)	91.37	kN	20.54	kip
Rated Strength of Core - 399 ksi (2750 MPa)	77.80	kN	17.49	kip
Core Mass per unit length (Exclude Encapsulation)	49.00	kg/km	32.93	lb/kft
Conductor Mass per unit length	657.55	kg/km	441.93	lb/kft
Fully Annealed AlMass per unit length (Include Encapsulation)**	608.55	kg/km	409.00	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)	17.316	x10 <sup>-6</sup> /°C	9.620	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)	66.7	GPa	9.7	Msi
Aluminum Heat Capacity	569.0	Watt-s/m-°C	96.3	Watt-s/ft-°F
Core Heat Capacity	41.8	Watt-s/m-°C	7.1	Watt-s/ft-°F
Encapsulation Thickness	2.20	mm	0.08661	in
Stranding Ratio	1.0200			
Covered Thickness	0.000	mm	0.000	in
Electrical Specifications	Metric		lmp	perial
DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.1251	ohm/km	0.2014	ohm/mile
DC Resistance at 25°C	0.1277	ohm/km	0.2055	ohm/mile
DC Resistance at 75°C	0.1532	ohm/km	0.2466	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	0.1281	ohm/km	0.2061	ohm/mile
AC Resistance at 75°C	0.1535	ohm/km	0.2471	ohm/mile
AC Resistance at 180°C	0.2070	ohm/km	0.3331	ohm/mile
Ampacity 4)		1019		°C, & A
runpacky T/		1072	@200	°C, & A
GMR (estimated)	7.43	mm	0.0244	ft
Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2334	ohm/km	0.376	ohm/mile
Capacitive Reactance	0.2009	Mohm-km	0.125	Mohm-mile

<sup>\*</sup>TS Forelien M3 6 (18.288) IEC 438 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaeInt area is 222 sq. mm (438 kcmil)

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contact: info@tsconductor.com ID:26219 Date Produced: 12/22/2023

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

<sup>1)</sup> Fully Annealed 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 Forelien M3 6 (18.288) IEC 438 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

### TS Forelien M1 6 (0.72) 438



Governing Units: Metric

Mechanical Specifications	Metric		Imperial	
Fully Annealed Al Cross-sectional Area*	221.96	mm <sup>2</sup>	438.03	kcmil
Encapsulated Aluminum Cross-Sectional Area	56.67	mm <sup>2</sup>	0.08785	in <sup>2</sup>
Diameter of Composite Core (Exclude Encapsulation)	6.0	mm	0.23600	in
Cross-sectional Area of Core (Exclude Encapsulation)	28.30	mm <sup>2</sup>	0.04383	in <sup>2</sup>
Overall Diameter of Conductor	18.288	mm	0.720	in
Cross-sectional Area of the Conductor (Exclude Covering)	250.20	mm <sup>2</sup>	0.38786	in <sup>2</sup>
Ultimate Tensile Strength of Conductor 1) ,2)	74.37	kN	16.72	kip
Rated Strength of Core - 312 ksi (2150 MPa)	60.81	kN	13.67	kip
Core Mass per unit length (Exclude Encapsulation)	57.00	kg/km	38.31	lb/kft
Conductor Mass per unit length	665.55	kg/km	447.31	lb/kft
Fully Annealed AlMass per unit length (Include Encapsulation)**	608.55	kg/km	409.00	lb/kft
Maximum Emergency Temperature at Surface 3)	200	°C	392	°F
Coefficient of Linear Expansion Above Thermal Kneepoint (core)	1.440	x10 <sup>-6</sup> /°C	0.800	x10 <sup>-6</sup> /°F
Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)	18.631	x10 <sup>-6</sup> /°C	10.351	x10 <sup>-6</sup> /°F
Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)	113.0	GPa	16.4	Msi
Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)	62.6	GPa	9.1	Msi
Aluminum Heat Capacity	569.0	Watt-s/m-°C	96.3	Watt-s/ft-°F
Core Heat Capacity	48.3	Watt-s/m-°C	8.2	Watt-s/ft-°F
Encapsulation Thickness	2.20	mm	0.08661	in
Stranding Ratio	1.0200			
Covered Thickness	0.000	mm	0.000	in
Electrical Specifications	Metric		Imperial	
DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.1251	ohm/km	0.2014	ohm/mile
DC Resistance at 25°C	0.1277	ohm/km	0.2055	ohm/mile
DC Resistance at 75°C	0.1532	ohm/km	0.2466	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	0.1282	ohm/km	0.2064	ohm/mile
AC Resistance at 75°C	0.1537	ohm/km	0.2473	ohm/mile
AC Resistance at 180°C	0.2071	ohm/km	0.3333	ohm/mile
Ampacity 4)		1023		°C, & A
Milipaoity +)		1076	@200	°C, & A
GMR (estimated)	7.43	mm	0.0244	ft
Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2801	ohm/km	0.451	ohm/mile
Capacitive Reactance	0.1674	Mohm-km	0.104	Mohm-mile

<sup>\*</sup>TS Forelien M1 6 (0.72) 438 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaeInt area is 222 sq. mm (438 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:26214 Date Produced: 1/5/2024

<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 Forelien M1 6 (0.72) 438 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

### TS Forelien M1 6 (18.288) IEC 438



Governing Units: Metric

Governing Units: Metric				
Mechanical Specifications	Metric		Imperial	
Fully Annealed Al Cross-sectional Area*	221.96	mm <sup>2</sup>	438.03	kcmil
Encapsulated Aluminum Cross-Sectional Area	56.67	mm <sup>2</sup>	0.08785	in <sup>2</sup>
Diameter of Composite Core (Exclude Encapsulation)	6.0	mm	0.23600	in
Cross-sectional Area of Core (Exclude Encapsulation)	28.30	mm <sup>2</sup>	0.04383	in <sup>2</sup>
Overall Diameter of Conductor	18.288	mm	0.720	in
Cross-sectional Area of the Conductor (Exclude Covering)	250.20	mm <sup>2</sup>	0.38786	in <sup>2</sup>
Ultimate Tensile Strength of Conductor 1) ,2)	74.37	kN	16.72	kip
Rated Strength of Core - 312 ksi (2150 MPa)	60.81	kN	13.67	kip
Core Mass per unit length (Exclude Encapsulation)	57.00	kg/km	38.31	lb/kft
Conductor Mass per unit length	665.55	kg/km	447.31	lb/kft
Fully Annealed AlMass per unit length (Include Encapsulation)**	608.55	kg/km	409.00	lb/kft
Maximum Emergency Temperature at Surface 3)	200	°C	392	°F
Coefficient of Linear Expansion Above Thermal Kneepoint (core)	1.440	x10 <sup>-6</sup> /°C	0.800	x10 <sup>-6</sup> /°F
Coefficient of Linear Expansion Below Thermal Kneepoint (conductor)	18.631	x10 <sup>-6</sup> /°C	10.351	x10 <sup>-6</sup> /°F
Final Modulus of Elasticity Above Thermal Kneepoint (based on core area)	113.0	GPa	16.4	Msi
Final Modulus of Elasticity Below Thermal Kneepoint (based on conductor area)	62.6	GPa	9.1	Msi
Aluminum Heat Capacity	569.0	Watt-s/m-°C	96.3	Watt-s/ft-°F
Core Heat Capacity	48.3	Watt-s/m-°C	8.2	Watt-s/ft-°F
Encapsulation Thickness	2.20	mm	0.08661	in
Stranding Ratio	1.0200			
Covered Thickness	0.000	mm	0.000	in
Electrical Specifications	Metric		Imperial	
DC Resistance at 20°C (Fully Annealed Al 63% IACS)	0.1251	ohm/km	0.2014	ohm/mile
DC Resistance at 25°C	0.1277	ohm/km	0.2055	ohm/mile
DC Resistance at 75°C	0.1532	ohm/km	0.2466	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	0.1281	ohm/km	0.2061	ohm/mile
AC Resistance at 75°C	0.1535	ohm/km	0.2471	ohm/mile
AC Resistance at 180°C	0.2070	ohm/km	0.3331	ohm/mile
Ampacity 4)		1023	@180	°C, & A
Ampacity 4)		1076	@200	°C, & A
GMR (estimated)	7.43	mm	0.0244	ft
Inductive Reactance (Xa: internal flux+external flux radius 1 ft)	0.2334	ohm/km	0.376	ohm/mile
Capacitive Reactance	0.2009	Mohm-km	0.125	Mohm-mile

<sup>\*</sup>TS Forelien M1 6 (18.288) IEC 438 conductor is produced with Fully Annealed Al aluminum. The nominal Aluminum equivaeInt area is 222 sq. mm (438 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:27843 Date Produced: 1/5/2024

<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.

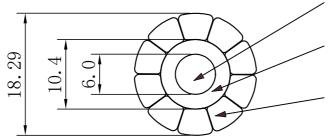
<sup>2)</sup> Strength at ambient temperature, Strength may be reduced to Rated Core Strength when temperature is above knee point

<sup>3)</sup> Maximum continuous operating temperature of TS Forelien M1 6 (18.288) IEC 438 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

Units: mm

## TS Conductor Forelien Cross sectional drawing



Carbon fiber composite core:

Nominal diameter=6.0mm

Aluminium Encapsulation:

Thickness = 2.2mm

Trapezoidal shaped annealed aluminium wires:

Numbers=10 Nominal area=16.53mm<sup>2</sup>

# TS Conductor Corp.

TS Forelien M3 6 (0.72) ID:26213					
Design		Date	5. 01. 2023		
Check		Date	5. 01. 2023		
Ratify		Date	5. 01. 2023		

26213, 26214, 26219, 26220