Prysmian Group

PRYSMIAN Draka

Light Weight,
Smooth Surface, High performance hook-up wires.
Tin coated copper conductor.
Composite insulation 150°C

AS22759/180

CHARACTERISTICS:

Environmental:

- Operating temperature : -65°C to +150°C (ambient temperature + current heating)

- Resistant to :
  - Aircraft fluids (oils, hydrocarbons, kerosene, …)
  - Chemical agents.
- Wet and Dry Arc Tracking resistant.
- Hydrolysis resistant.
- Abrasion resistant.

Electrical:

- Operating voltage: 600Vrms** (See note on reverse)
- Linear resistance: See table on reverse

Mechanical:

- Weight: See table on reverse
- Dimensions: See table on reverse

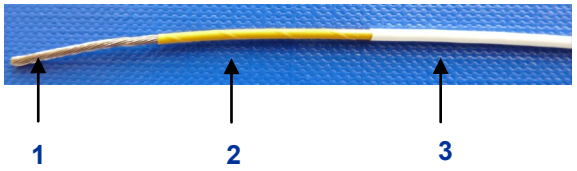
APPLICATIONS:

- General purpose high performance hook-up wires.
- Designed for Aerospace and other applications requiring excellent thermal stability.
- Developed at the request of NAVAIR and USAF.

IDENTIFICATION:

- Standard version are based on PTFE tape that can be marked by UV laser.
- Symbol code in NEMA WC 27500: **DB**
- This slash sheet is primarily intended for crimp termination. For solderability applications, it is recommended to use the silver coated copper version of this specification (AS22759/191)

CONSTRUCTION:

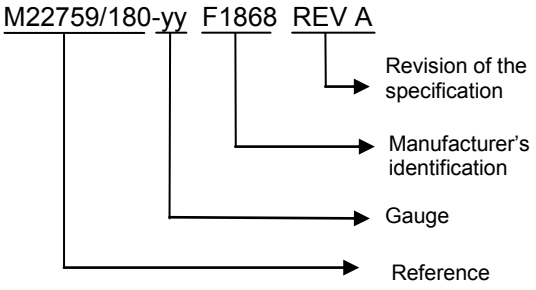


1 -Conductor: Tin coated copper (Type TCC).
2 -FP/Polyimide/FP tape.
3 -PTFE tape, Smooth, UV laser markable.

STANDARDS/SPECIFICATONS:

- Conductors in accordance with AS29606
- Product standard: AS22759/180
- Technical specification: AS22759

MARKING:



Example: M22759/180-20 F1868 Rev A

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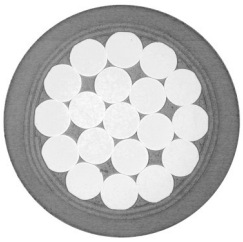
AS22759/180



SAE part number	Draka Part number	Wire Size	Conductor assembly n × AWG *(n × mm)*	Conductor Ø		Resistance at 20°C Max. Ω/1000 ft *(Ω/km)*	Wire outer Ø		Weight Max. Lbs/1000ft *(kg/km)*
				Min. Inch *(mm)*	Max. Inch *(mm)*		Min. Inch *(mm)*	Max. Inch *(mm)*	
M22759/180-26-*	**SM18026-***	26	19x38 *(19x0.102)*	0.0175 *(0.44)*	0.0204 *(0.52)*	41.3 *(135.5)*	0.030 *(0.76)*	0.034 *(0.86)*	1.45 *(2.16)*
M22759/180-24-*	**SM18024-***	24	19x36 *(19x0.127)*	0.0225 *(0.57)*	0.0244 *(0.62)*	26.2 *(85.95)*	0.034 *(0.86)*	0.038 *(0.97)*	2.00 *(2.98)*
M22759/180-22-*	**SM18022-***	22	19x34 *(19x0.16)*	0.0285 *(0.72)*	0.0314 *(0.80)*	16.2 *(53.15)*	0.040 *(1.02)*	0.043 *(1.09)*	2.95 *(4.39)*
M22759/180-20-*	**SM18020-***	20	19x32 *(19x0.203)*	0.0365 *(0.93)*	0.0394 *(1.00)*	9.88 *(32.4)*	0.048 *(1.22)*	0.051 *(1.30)*	4.45 *(6.62)*
M22759/180-18-*	**SM18018-***	18	19x30 *(19x0.254)*	0.0455 *(1.16)*	0.0494 *(1.25)*	6.23 *(20.44)*	0.056 *(1.42)*	0.060 *(1.52)*	6.65 *(9.90)*
M22759/180-16-*	**SM18016-***	16	19x29 *(19x0.287)*	0.0515 *(1.31)*	0.0554 *(1.41)*	4.81 *(15.78)*	0.063 *(1.60)*	0.067 *(1.70)*	8.35 *(12.43)*
M22759/180-14-*	**SM18014-***	14	19x27 *(19x0.361)*	0.0645 *(1.64)*	0.0694 *(1.76)*	3.06 *(10.04)*	0.076 *(1.93)*	0.080 *(2.03)*	12.8 *(19.05)*
M22759/180-12-*	**SM18012-***	12	37x28 *(37x0.32)*	0.0835 *(2.12)*	0.0894 *(2.27)*	2.02 *(6.62)*	0.096 *(2.44)*	0.100 *(2.54)*	20.3 *(30.21)*
M22759/180-10-*	**SM18010-***	10	37x26 *(37x0.404)*	0.106 *(2.69)*	0.112 *(2.84)*	1.26 *(4.13)*	0.119 *(3.02)*	0.123 *(3.12)*	31.4 *(46.73)*

*: Replace the asterisks in the part number by color code designators (in accordance with MIL-STD-681)

**: Operating Voltage: 600Vrms at sea level. This insulation system has been used in Aerospace applications using 115 Volts (Phase to Neutral), 400 Hertz AC and 28 Volts DC. Verification of the suitability of this product for use in other Electrical system configuration is the responsibility of the user.