

AS22759/89

Wire specification: SAE AS22759/89

Normal weight, High performance hook-up wires.

Silver coated high strength or ultra high strength copper alloy conductor

Composite insulation 200°C



General purpose high-performance hook-up wires.
Designed for aerospace and other applications
requiring excellent thermal stability.



Cable characteristics



-65 +200°C



Excellent



FAR25

Environmental

- Operating temperature: -65°C to 200°C (ambient temperature + current heating)
- Resistant to Aircraft fluids (oils, hydrocarbons, kerosene...), Chemical agents
- Wet and Dry Arc Tracking resistant
- Hydrolysis resistant

Electrical

Maximum operating voltage: 600Vrms**

Cable design



1. Conductor: Silver coated high strength copper alloy (AWG 24 to 20 Type SCA) or ultra high strength copper alloy (AWG 26 Type SCU)
2. FP/Polyimide/FP tape
3. PTFE tape, UV laser markable

Identification

- Standard version are based on PTFE tape that can be marked by UV laser
- Symbol code in NEMA WC 27500: WM
- For a Smooth Surface construction, it is recommended to use the AS22759/189 specification.

Marking

M22759/89-yy F1868 REV x
1 2 3 4

e.g. M22759/89-24 F1868 REV C

1. Reference
2. Gauge
3. Manufacturer's identification
4. Revision of specification

Specifications

Conductors

AS29606

Wires Specifications

AS22759/89

Technical Specification

AS22759

Dimensional

Part number	AWG	Conductor construction	Conductor diameter		Linear resistance max. at 20°C	Outer diameter		Weight max.	Tensile breaking strength min.
			min.	max.		min.	max.		
		nb x AWG nb x mm	inch mm	inch mm	$\Omega/1000\text{ft}$ Ω/km	inch mm	inch mm	Lbs/1000ft kg/km	Lbs N
M22759/89-26-*	26	19 x 38 19 x 0.102	0.0175 0.44	0.0204 0.52	56.4 185	0.033 0.84	0.037 0.94	1.60 2.38	21.5 95.7
M22759/89-24-*	24	19 x 36 19 x 0.127	0.0225 0.57	0.0244 0.62	28.4 93.2	0.038 0.97	0.042 1.07	2.20 3.27	22.4 99.7
M22759/89-22-*	22	19 x 34 19 x 0.16	0.0285 0.72	0.0314 0.80	17.5 57.4	0.043 1.09	0.047 1.19	3.10 4.61	35.8 159.3
M22759/89-20-*	20	19 x 32 19 x 0.203	0.0365 0.93	0.0395 1.00	10.7 35.1	0.051 1.30	0.055 1.40	4.70 6.99	58.1 258.5

*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.



Prysmian câbles et systèmes France

Head Office

23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France
Tel : +33 (0)4 72 46 73 99 - infocables.fr@prysmian.com

Draka Fileca SAS

D 1001 - 60730 Sainte-Geneviève / France
fileca-office@prysmian.com



www.prysmian.com



© PRYSMIAN 2024

All Rights Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is believed correct at the time of issue. Prysmian reserves the right to amend this specification without notice. This specification is not contractually valid unless specifically authorised by Prysmian.