

Space application Flexible PTFE Wires

E-ESP Series

CHARACTERISTICS:

Environmental:

- Operating temperature: - 100°C to + 200°C (ambient temperature + current heating)
- High resistance to chemical agents
- High resistance to radiation in a vacuum environment.
- Non-flammable.
- Very good solderability.
- Excellent behaviour in out-gassing.
- The 2 µm thick of silver plating on the conductor give the best protection against the Red plague phenomenon.

Mechanical:

- High flexibility
- Reinforced mechanical resistance.

Electrical:

- Maximum operating voltage : 600Vac

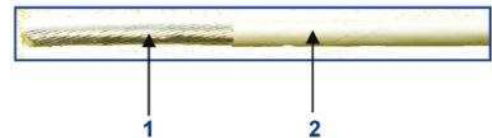
APPLICATIONS:

- Space applications
- Printed circuits board power supply.
- Test benches.

IDENTIFICATION:

- Standard version: white.
- Others colors available on request.

CONSTRUCTION:



1- Conductor: Silver plated copper or Silver plated copper Alloy.

2- PTFE tape.

STANDARDS/SPECIFICATONS:

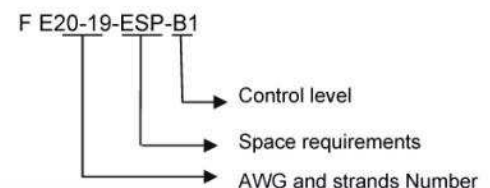
- Conductors in accordance with ESCC 3901
- Dimensional: ANSI/NEMA HP3 (formerly MIL-W-16878).
- Inspection level references: ESCC 3901
- According to customer specifications: STAND-ST-DAD024924-V-ASTR.

INSPECTION LEVEL:

The ESA Generic Specification prescribes 3 levels of lot acceptance which, in order of decreasing testing requirements, are designated « B1 », « B2 », « B3 ». Should the lowest « standard » level be considered insufficient, then add « B2 » or « B1 » to Draka Fileca references.

Example : F E20-19-ESP-B2

ORDERING CODE:



Space application Flexible PTFE Wires

E-ESP Series

Draka part number	Conductors according to ESCC 3901 Standard			Maximum linear resistance at 20°C (Ohms/km)	Outer diameter according to ANSI/NEMA HP3		Maximum Weight (g/m)
	AWG*	Stranding n x mm	Nominal Cross Section (mm ²)		Minimum (mm)	Maximum (mm)	
F E32-07-ESP	32	7x0.08 (1)	0.035	653	0.66	0.86	1.20
F E30-07-ESP	30	7X0.10 (1)	0.055	388	0.71	0.91	1.50
F E28-07-ESP	28	7x0.127 (1)	0.09	242	0.79	0.99	2.2
F E28-19-ESP	28	19x0.08 (1)	0.10	242	0.79	0.99	2.2
F E26-19-ESP	26	19x0.10 (1)	0.15	148	0.89	1.12	2.8
F E24-19-ESP	24	19x0.12 (1)	0.21	105	1.02	1.24	3.8
F E22-19-ESP	22	19x0.16	0.38	50.9	1.17	1.42	5.8
F E20-19-ESP	20	19x0.2	0.6	32.2	1.37	1.57	8.8
F E18-19-ESP	18	19x0.25	0.93	20.6	1.63	1.88	13.0
F E16-19-ESP	16	19x0.3	1.3	14.3	1.85	2.25	18.4
F E14-27-ESP	14	27x0.3	1.9	10.1	2.15	2.55	25.4
F E12-45-ESP	12	45x0.3	3.2	6.03	2.68	3.08	39.5

* Closest American wire gauge
(1) Silver plated copper alloy.