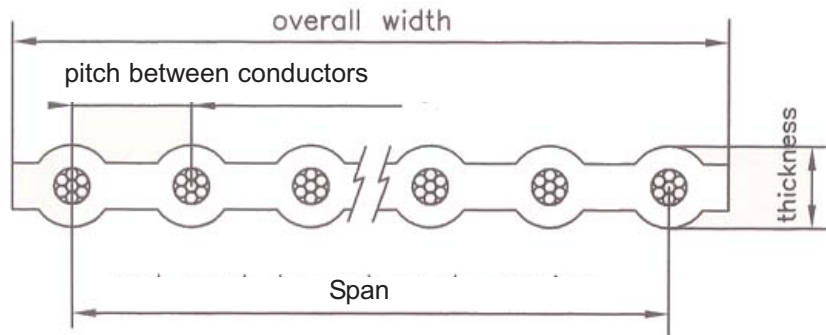


FLAT CABLES WITH ROUND CONDUCTORS



Designation and identification code

Example : **K 1 D S 20**
 a b c d e

a - Insulating material :

K FEP

Z ETFE

Minimum Insulating thickness 0.15 mm

b - Pitch between conductors :

1 1.27 mm

2 2.54 mm

c - Sizes and constructions of conductors :

A AWG3001 (1x0.254 mm) - diam. 0.254 mm - section 0.051 mm²

B AWG3007 (7x0.102 mm) - diam. 0.30 mm - section 0.057 mm²

C AWG2801 (1x0.32 mm) - diam. 0.32 mm - section 0.080 mm²

D AWG2807 (7x0.127 mm) - diam. 0.38 mm - section 0.089 mm²

E AWG2819 (19x0.079 mm) - diam. 0.39 mm - section 0.093 mm²

F AWG2601 (1x0.403 mm) - diam. 0.40 mm - section 0.128 mm²

G AWG2607 (7x0.160 mm) - diam. 0.48 mm - section 0.141 mm²

H AWG2619 (19x0.102 mm) - diam. 0.51 mm - section 0.155 mm²

d - Conductors material :

S Annealed silver plated copper

N Annealed nickel plated copper

XS Silver copper alloy

XN Nickel copper alloy

e - Number of conductors :

10 to 40 for pitch 1.27 mm

5 to 20 for pitch 2.54 mm

Dimension characteristics (ex. for flat cables AWG2807 and 1.27 mm pitch)

Nber of conductors	Nominal dimensions (mm)			cable ref. (AWG2807)	Weight (g/m)	cable ref. (AWG2807)	Weight (g/m)
	Width	Span	Thickness	FEP Insulating material		FEP Insulating material	
10	12.70	11.40	0.87	K1 DS-10	32	Z1 DS-10	27
14	17.80	16.50	0.87	K1 DS-14	45	Z1 DS-14	37
16	20.30	19.10	0.87	K1 DS-16	51	Z1 DS-16	43
17	21.60	20.30	0.87	K1 DS-17	55	Z1 DS-17	45
20	25.40	24.10	0.87	K1 DS-20	64	Z1 DS-20	53
26	33.00	31.80	0.87	K1 DS-26	83	Z1 DS-26	69
29	36.80	35.60	0.87	K1 DS-29	94	Z1 DS-29	77
34	43.20	41.90	0.87	K1 DS-34	109	Z1 DS-34	90
40	50.80	49.50	0.87	K1 DS-40	128	Z1 DS-40	106

Nota : width, span and thickness dimensions concerning cables with other AWG sizes are the same as above mentioned.

FLAT CABLE

GENERAL CHARACTERISTICS

Operating Temperatures :

- FEP insulated flat cable : -90°C à +200°C ;
- ETFE insulated flat cable : -90°C à +155°C.

Standard colour: blue/natural (others colours on request).

Package : flat plastic spools.

Minimum length : 10 meters.

Specification : NF-C-93.525 and MIL-DTL-49055.

Standard : UL Style 2445 (for insulated flat cable FEP only).

RoHS compliance (Restriction of the use Of certain Hazardous Substances) to EC2002/95.

Electrical characteristics

Characteristics	FEP insulated flat cable	ETFE insulated flat cable
Nominal operating voltage	300 V eff.	300 V eff.
Test voltage	1600 V eff.	1600 V eff.
Intensity (AWG 28)	3 A	3 A
characteristics impedance (triad method)	125 +/- 10 Ω	110 +/- 10 Ω
Capacitance (at 10 Hz), pair	23 pF/m	22.8 pF/m
Attenuation (at 1 MHz)	0.3 dB/m	0.3 dB/m
Breakdown voltage (50 Hz)	10 kV A.C.	10 kV A.C.