

Cable definition:

Conductor				Insulation			
Pitch	Width	Maxi Condu	ictor	Polyester insu	lation with flan	ame retardant adhesive	
(mm)	(mm)	Resistance (9	.2/km)				
0.50	0.30 ± 0.0	02 730		Thickness (mm)	0	0.073 typical	
1.00	0.70 ± 0.0	300		Colour		White	
1.25	0.80 ± 0.0	03 290					
Conductor	thickness : 0	.10 ± 0.015	-0	onductor _[n	sulation		
Conductor	r plating :				th		
Tin (wit	h Silver)	2 μm mini					
Gold (type	e 2 grade D)	0.3µm Ni mini / 0.05	µm Au	`			
Note: cond	uctor resistance	e according to ASTM B19	P3 at 20°C.	\mathbf{X}	5	F2	
Drogogin	a form		-	-Reinforcing tape			
A · Reinf	g IOIIII Orcing tanes	at both ends are					
A . Kulli	on the sam	e side				<u> </u>	
4.4							<u> </u>
D.D.i.							E W
D : Reini	orcing tapes	at both ends are					
on the opposite side							
	24						1 1
						allower 1	
			- ⁵¹ -		L.	S2	-
Use	2	ZIF connectors	Hot bar solder	ring Nanual so	Idering	Manual soldering	
				K : polyest	1.U	Filch 1.25	_
Reinforcia	ng tape	K : Polyester tape	H : Polyimide	tape $F1 \text{ or } F2 =$	2.5 mm	- : no tape	
Colour	1	Blue	Natural (ambe	r) White			
Design					=		

Dimensions: All dimensions are given in millimetres (mm).

Pitch : P	0.50 ± 0.05	1.00 ± 0.08	1.25 ± 0.10		
Conductors : N	6 to 60	4 to 60	4 to 60		
Span : E	(N-1)*0.50 ±0.10	(N-1)*1.00 ± 0.15	(N-1)*1.25 ±0.15		
Width : W	(N+1)*0.50 ± 0.10	(N+1)*1.00 ± 0.10	$(N+1)*1.25 \pm 0.15$		
Margin : M	0.5 +0.15/-0.096	1.0 ± 0.20	1.25 ± 0.20		
Strip length : S1-S2	2.0 to 10.0 ± 0.80 (standard value : 4 mm)				
Reinforcement length : F1-F2	6.0 to 20.0 ± 2.0 (standard value : 8 mm)				
	$20 \text{ to } 60 \pm 2$		201 to 3999 ± 5		
Insulated length : L	61 to 100 ± 3		4000 to 5999 ± 10		
	$101 \text{ to } 200 \pm 4$		6000 to 9999 ± 15		
End thickness : T	0.30 ± 0.05 (only for ZIF connectors)				
Cable thickness : th	0.25 typical				

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Properties:

Electrical properties	Testing conditions		Pitch		
	l esting conditions	0.50	1.00	1.25	
Dielectric Test (V AC)	In air, during 1 minute (MIL-STD-202 Method 301)	200	400	500	
Current rating (A)	FFC at 23°C Allowable temperature rise : 40°C	0.55	1.25	1.40	
Insulation resistance conductor to conductor $(M\Omega.m min)$	MIL-STD-202F Method 302 cond. B	10 at DC 200V	10 at DC 400V	10 at DC500V	
Continuity test	DC 3.0 V at 0.1mA	Passed	Passed	Passed	
Impedance cond/cond balanced method (typical value)	FFC without shielding at 1MHz	105 Ω	-	-	
Capacitance cond/cond balanced method (typical value)	FFC without shielding art 1 KHz	62 pF/m	-	-	

Other properties	Testing conditions	Characteristics	
Heat resistance	136°C, 168 hours following UL20706	Dielectric test Insulation resistance	Passed Passed
Thermal shock	(-55°C x 30 min \rightarrow 25°C x 5 min \rightarrow 85°C x 30 min \rightarrow 25°C x 5 min)x 25 cycles (MIL-STD-202-107E-A1)	Dielectric test Insulation resistance	Passed Passed
Cold coiling	Rating temperature of -40°C : -40°C, 96 hours The sample will be initially wound on a mandrel of 3 mm	At room temperature : Visual inspection Dielectric test Insulation resistance	Passed Passed Passed
Wear by abrasion	Test following EN3475-503 Weight : 500 g Speed : 60 cycles/min Abrasion tool : $\emptyset = 0.50$ mm	Dielectric test Insulation resistance : After 10 000 cycles	Passed
Flame resistance	UL 758 VW-1		Passed
Solderability (tin plated conductors)	Immersion of the area which is intended for soldering into a tin bath at $250 \pm 10^{\circ}$ C During 30 seconds	No insulation separation Solder reflow below 1 mm	Passed Passed
Folding	The specimen shall be folded manually at 180°	Continuity after more than 20 times	Passed
Moisture resistance	60°C, 95% RH, 96 hours (MIL-STD-202-103B)	Dielectric test Insulation resistance	Passed Passed
Flex-life (typical values)	speed 100 cycles /min Flex life tests are performed at 23°C. R	Radius 10 mm	100 000 cycles

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General characteristics for FFC

High current version

105°C 60V

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UL approval:

With B code, these products are UL compliant under:

UL style 20706 Temperature rating : 105°C, Voltage rating : 60 V AC

File number of AXON'CABLE: E45046.

FFC with L> 30 mm and W>9mm will have a marking black on 1 side with the following text: "AXON'CABLE – **N** – **AWM – STYLE 20706 – 105C – 60V – VW-1** "

Special designs : On request, shapes for connectors with locking system from different connector maker

Examples:						
Pitch : P (mm)	0.50	0.50	0.50	0.50	0.50	1.00
FFC Drawing						

Packaging:

Each container is marked with the following: AXON'CABLE Reference of the product Lot number Quantity

ROHS Compliance : All constructions are RoHS compliant

Storage condition:

- Pieces packaged in original packaging.
- Temperature: -20°C to 40°C
- Relative humidity: 70 % max
- Storage duration: 1 year maxi (tin plated conductors)
 - 3 years maxi (gold plated conductors)

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Product reference:		
FFC 1.00 A 25 / 0200 B 4.0-4.0-08.0	D-08.0 S A KK/AU Options : Plating on conductors . : tin plating AU: gold plating Reinforcement type (F1 & F2): K: Polyester reinforcement H: Polyimide reinforcement B: UL approval Conductor thickness: S Reinforcement length F1 in mm (8 mm standard length) Reinforcement length F1 in mm (8 mm standard length) n S1 in mm (4 mm standard length) n mm	