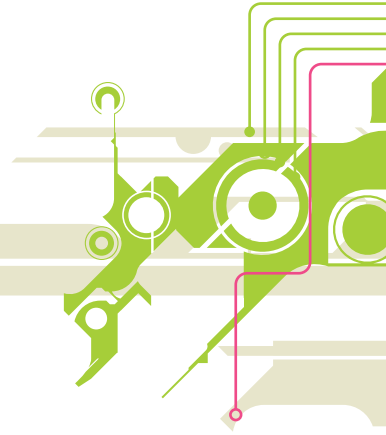


Flat Cables with round pins AXOSTRIP™



AXOSTRIP™ is a flat cable with round pins which can be soldered or inserted to achieve board-to-board interconnections. This product range has been designed for static applications.

Advantages

- High flexibility,
- High resistance to vibration and bending: reliable connection joint,
- Lower production costs: wave-soldered with the other components onto the PCB in the same operation,
- Lower purchasing costs since no connectors are required for type C and type A,
- Type B and type D are dismantlable, only one connector is needed,
- Preparation wire stripping and cutting to length is not required,
- ZIF interface if needed (when flat conductors on one end).

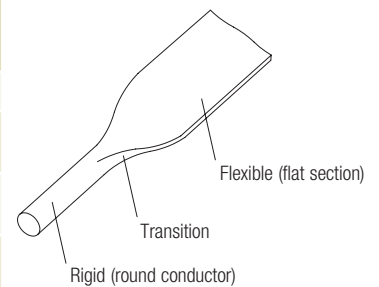
General characteristics

Conductor

Pitch P (mm)	Diameter Ø (mm)	AWG	Maxi Conductor Resistance (Ω/km)
1.00	0.32 ± 0.02	28	250
1.25 1.27	0.32 ± 0.02	28	250
1.90 2.00	0.40 ± 0.02	26	145
2.54 5.08	0.51 ± 0.02	24	100

Conductor plating:

Tin	2 µm typical
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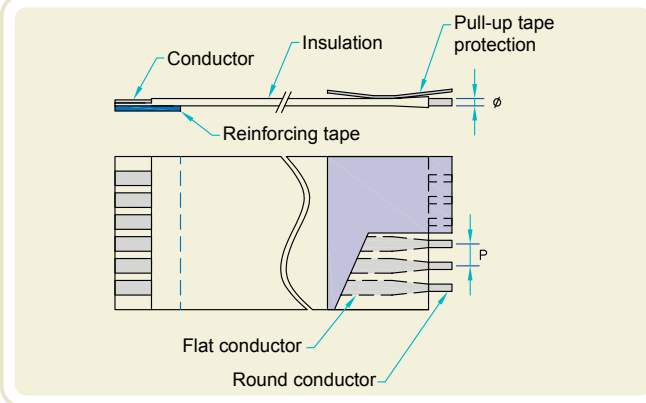
ARAMID INSULATED AXOSTRIP®

Insulation

Polyester, Polyimide or Aramid insulation with flame retardant adhesive.

	Polyester		Aramid	Polyimide
Code	B	H	W	Z
Operating temperature (°C)	-40 / +105	-40 / +105	-40 / +125	-40 / +125
Pitch P (mm)	1 to 1.27	1.9 to 5.08	1 to 5.08	

General drawing



Processing forms

Type A or type D

	Type A	Type D
	Round conductors on both ends + pull-up protection	Flat conductors on one end and round conductors on the other end + pull-up protection
Design		
Reinforcing tape	-: no tape	L: Polyester tape (blue)
Pull-up protection	P: Polyester tape (clear/red)	
Use	Wave or manual soldering	ZIF connectors on reinforcement side Wave or manual soldering on the other side
	Remove pull-up tape protection before using Pull-up tape improves conductor's protection during transportation and handling	

Type C or type B

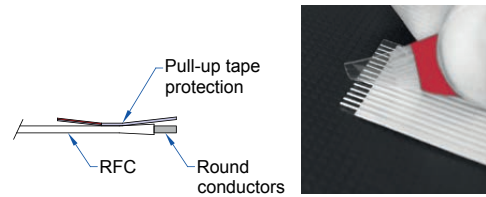
	Type C	Type B
	Round conductors on both ends	Flat conductors on one end and round conductors on the other end
Design		
Reinforcing tape	-: no tape	L: Polyester tape (blue)
Use	Wave or manual soldering	ZIF connectors on reinforcement side Wave or manual soldering on the other side



STANDARD RFC TYPE B



STANDARD RFC TYPE C



Pull-up protective tape

Dimensions

Pitch: P (mm)	1.00 ± 0.10	1.25 ± 0.10	1.27 ± 0.10	1.90 ± 0.15	2.00 ± 0.15	2.54 ± 0.20	5.08 ± 0.20
Number of conductors: N	2 to 50	2 to 50	2 to 50	2 to 38	2 to 37	2 to 32	2 to 13
Span: E (mm)	(N-1)* 1.00 ± 0.15	(N-1)* 1.25 ± 0.15	(N-1)* 1.27 ± 0.15	(N-1)* 1.90 ± 0.15	(N-1)* 2.00 ± 0.15	(N-1)* 2.54 ± 0.20	(N-1)* 5.08 ± 0.20
Cable width: W (mm)	(N+1)* 1.00 ± 0.15	(N+1)* 1.25 ± 0.15	(N+1)* 1.27 ± 0.15	(N+1)* 1.90 ± 0.20	(N+1)* 2.00 ± 0.20	(N+1)* 2.54 ± 0.20	(N)* 5.08 ± 0.20
Margin: M (mm)	1.00 ± 0.20	1.25 ± 0.20	1.27 ± 0.20	1.90 ± 0.20	2.00 ± 0.20	2.54 ± 0.20	2.54 ± 0.20
Insulated length: L (mm)	15 à 18 ± 1 19 à 60 ± 2 61 à 100 ± 3 101 à 200 ± 4 201 à 999 ± 5						
Standard wire gauge (AWG)	28	28	28	26	26	24	24
Pin diameter (mm) Ø	0.32±0.02	0.32±0.02	0.32±0.02	0.40±0.02	0.40±0.02	0.51±0.02	0.51±0.02
Flat conductor width: C (mm)	0.7	0.8	0.8	1.3	1.3	1.5	1.5
Flat conductor thickness (mm)	0.115	0.10	0.10	0.10	0.10	0.12	0.12
Stripping length: S1 (mm)	Standard value: 4 ± 0.75 for Type B or D			3.5 ± 0.75 for Type A or C			
Stripping length: S2 (mm)	Standard value: 3.5 ± 0.75						
Reinforcement length or pull-up protection: F1 (mm)	Standard value: 8 ± 2 for Type B or D			18 ± 2 for Type A			
Reinforcement length or pull-up protection: F2 (mm)	Standard value: 18 ± 2 (for Type A or D)						
Extremity thickness: T (mm)	0.30 ± 0.05 (for Type B or D)						

Other pitches and designs available on request.

Electrical properties

	Testing conditions	Pitch			
		1.00	1.25/1.27	1.90/2.00	2.54/5.08
Dielectric Test between conductors (V AC / 1 min)	In air, during 1 minute (MIL-STD-202 Method 301)	400	500	1250	1500
Voltage rating (V AC)	Non applicable	60	60	300	300
Current rating (A max)	RFC at 23°C Allowable temperature rise: 40°C	1.00	1.60	2.00	3.00
Insulation resistance conductor to conductor (M Ω .m min)	MIL-STD-202F Method 302 cond. B	10 at 400VDC	10 at 500VDC	10 at 500VDC	10 at 500VDC
Continuity test	DC 3.0 V at 0.1mA	Passed	Passed	Passed	Passed

Other properties

	Testing conditions	Characteristics	
Heat resistance	158°C, 168 hours for Aramid and Polyimide 136°C, 168 hours for Polyester	Visual inspection Dielectric test Insulation resistance	Passed Passed Passed
Cold coiling	-40°C, 4 hours	Visual inspection Dielectric test Insulation resistance	Passed Passed Passed
Moisture resistance	60°C, 95% RH, 96 hours	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: = 0.45 mm	Dielectric test Insulation resistance: After 100 cycles	Passed Passed
Flame resistance	UL 758	VW-1	Passed

Identification code

RFC 2.54 A 08 /0075 H 3.5 - 3.5 - 18.0 - 18.0 S A P P

Reinforcement type (F2):

- : no tape (for Type B or C)
 P: Pull-up tape protection for Type A or D

Reinforcement type (F1):

P: Pull-up tape protection (only for Type A)
 L: Polyester reinforcement for Type B or D
 - : no tape (only for Type C)

Tape marking:

A: Not marked

Conductor thickness

S (standard)

Reinforcement length or pull-up protection F2 in mm

0 mm standard length for Type B or C
 18 mm standard length for Type A or D

Reinforcement length or pull-up protection F1 in mm

0 mm standard length for Type C
 8 mm standard length for Type B or D
 18 mm standard length for Type A

Strip length S2 in mm:

(3.5 mm standard length for Type A, B, C or D)

Strip length S1 in mm:

4 mm standard length for Type B or D
 3.5 mm standard length for Type A or C

Insulation tape: H, B, W or Z

(see above table)
 H: Polyester W: Aramid (Nomex®)
 B: Polyester Z: Polyimide (Kapton®)

Insulated length L (mm)

Number of conductors N

Processing form:

Type A, B, C or D

Pitch P in mm

Round to Flat Cable:

AXOSTRIP™