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PRODUCT SPECIFICATION

PRODUCT SPECIFICATION OF THE 0,50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)

Revision List

REVISION	MODIFICATION	SHEETS	DATE
A	First Release	1 - 5	2004/07/05
B	Updated Specification	1 - 4	2011/09/29

REVISION: B	ECR/ECN INFORMATION: EC No: USW2012-0078 DATE: 2011/09/29	TITLE: PRODUCT SPECIFICATION 0,50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)	SHEET No. 1 of 4
DOCUMENT NUMBER: PS-98266-001	CREATED / REVISED BY: M.IMIG	CHECKED BY: D.ENGLISH	APPROVED BY: S.FULTON



PRODUCT SPECIFICATION

1 SCOPE

This specification covers the 0,50mm center FFC (Flat Flexible Cable) jumper cable, high temperature style, using tin plated copper conductor.

2 PRODUCT DESCRIPTION

2.1 Product name and series number

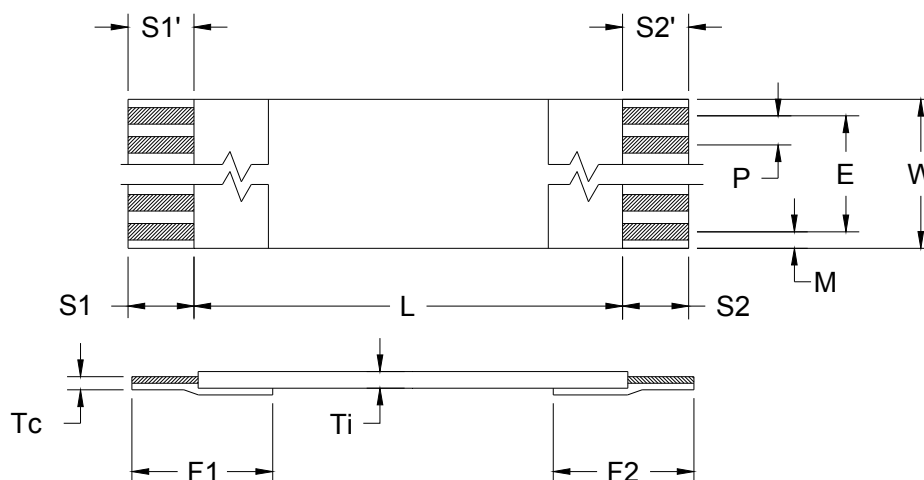
Product name: 0,50MM CENTER FFC JUMPER CABLE (HIGH TEMP)

Product material no: 98266-XXXX

2.2 Dimensions, materials and markings

Product dimensions according SD-98266-001.

Number of conductors	N: 6 to 80
Pitch	P: $0,50 \pm 0,05$ mm
Span	E: $0,50 (N-1) \pm 0,10$ mm
Total width	W: $0,50 (N+1) \pm 0,06$ mm
Margin width	M: $0,50 +0,15/-0,096$ mm
Strip length	S: $4,00 \pm 1,00$ mm
End thickness of the connection area	Tc: $0,30 \pm 0,03$ mm
Thickness of the insulated area	Ti: $0,22 \pm 0,05$ mm
Insulated length	L: 30 to 60mm $\pm 2,00$ mm 61 to 102mm $\pm 3,00$ mm 103 to 203mm $\pm 4,00$ mm 204 to 999mm $\pm 5,00$ mm
Reinforcement length	F: $8,00 \pm 2,00$ mm
End scariness	s-s': 0,30mm max.



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PRODUCT SPECIFICATION

2.3 Composition

- FFC tape: Material: Polyester + Flame retardant adhesive
Thickness: 0,070mm reference
Color: white
- Reinforcement tape: Material: Polyester + Adhesive
Thickness: 0,201mm reference
- FFC conductor: Material: Tin plated copper
Width: 0,30mm
Thickness: 0,10mm
Plating: tin min. 1µm

2.4 Safety agency approvals

Not applicable.

3 Ratings

3.1 Current and applicable conductors

Cross section	Amps
0,03mm ²	0,5

3.2 Temperature

Operating temperature: -40°C to +105°C

4 PERFORMANCE

4.1 Electrical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Conductor resistance	ASTM B 193	730 ohms/km MAXIMUM
2	Insulation resistance cond. to cond.	500 V DC	10 Mohms/km MINIMUM
3	Dielectric test	220 V AC for 1 minute	No disruptive discharge
4	Continuity test	3,0 V DC at 0,1mA	passed
5	Voltage rating		60 V AC MAXIMUM
6	Current rating	at 23°C increase in 10°C at the surface (all conductors under load)	0,5 A MIN

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PRODUCT SPECIFICATION

4.2 Physical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
7	Temperature rating		-40°C to +105°C
8	Heat resistance	168 hours at 135°C	Insulation resistance Dielectric test
9	Thermal shock	30 minutes at -55°C 5 minutes at +25°C 30 minutes at +105°C 5 minutes at +25°C	Insulation resistance after 25 cycles
10	Cold coiling	4 hours at -40°C / The sample will be wound on a 3mm dia. Mandrel	Insulation resistance
11	Wear by abrasion	Test following DIN ISO 6722-1 Weight: 500g Speed: 60 cycles/min Abrasion tool: 0,50mm	10000 cycles MINIMUM
12	Folding	The specimen shall be folded manually (Bending angle: 180° / Radius: 4mm)	5 times MINIMUM
13	Moisture resistance	96 hours at 60°C, 95% RH	Insulation resistance

4.3 Mechanical properties

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
14	Insulation elongation	JIS C 2318	60 % MINIMUM
15	Tensile strength	JIS C 2318	32 N/mm ² MINIMUM

5 PACKAGING

According to MOLEX packaging specification: PK-98266-001

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