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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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PRODUCT SPECIFICATION

PRODUCT SPECIFICATION OF THE 1.25MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)

Revision List

REVISION	MODIFICATION	SHEETS	DATE
A	First Release	1 - 5	2010/09/27
B	Updated Specification	1 - 5	2011/09/29
C	Modified Specification (Sections 2.2, 2.3, 6, 7)	1 - 5	2014/05/07

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
C	EC No: USW2014-0256 DATE: 2014/05/07	PRODUCT SPECIFICATION 1.25MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)	1 of 5
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-15268-001	M.IMIG	D.ENGLISH	S.FULTON



PRODUCT SPECIFICATION

1 SCOPE

This specification covers the 1.25mm 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

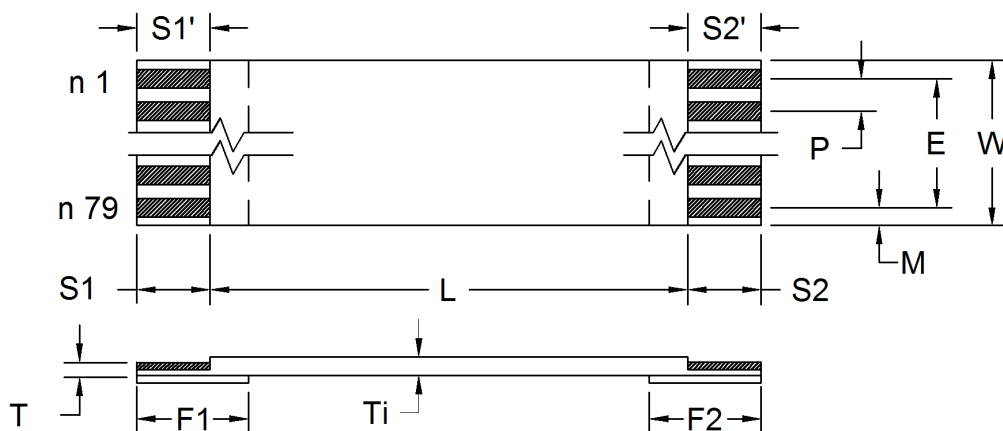
Product name: 1.25MM CENTER FFC JUMPER CABLE (HIGH TEMP)

Product material no: 15268-XXXX

2.2 Dimensions, materials and markings

Product dimensions according SD-15268-001.

Number of conductors	N: 3 to 79
Pitch	P: $1.25 \pm 0.10\text{mm}$
Span	E: $1.25 (N-1) \pm 0.15\text{mm}$
Total width	W: $1.25 (N+1) \pm 0.15\text{mm}$
Margin width	M: $1.25 \pm 0.20\text{mm}$
Strip length	S: $4.00 \pm 0.80\text{mm}$
End thickness of the connection area ..	Tc: $0.30 \pm 0.05\text{mm}$
Thickness of the insulated area	Ti: $0.27 \pm 0.05\text{mm}$
Insulated length	L: 20 to 60mm $\pm 2.00\text{mm}$ 61 to 100mm $\pm 3.00\text{mm}$ 101 to 200mm $\pm 4.00\text{mm}$ 201 to 3999mm $\pm 5.00\text{mm}$ 4000 to 5999mm $\pm 10.00\text{mm}$ 6000 to 9999mm $\pm 15.00\text{mm}$
Reinforcement length	F: $8.00 \pm 2.00\text{mm}$
End squareness	s-s': 0.40mm max.



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PRODUCT SPECIFICATION

2.3 COMPOSITION

- Conductor: Material: Tin plated copper conductor
Thickness: 0.10mm nominal (Standard)
- Insulation tape: Material: Polyester + Flame retardant adhesive
Thickness: 0.086mm nominal
Color: white
- Reinforcement tape: Material: Polyester + Adhesive
Thickness: 0.15mm nominal
Color: Blue

2.4 Safety agency approvals

Not applicable.

3 RATINGS

3.1 Current and applicable conductors

Cross section	Amps
0.08mm ²	1.4

3.2 Temperature

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

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PRODUCT SPECIFICATION

4 PERFORMANCE

4.1 Electrical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Conductor resistance	ASTM B 193	250 ohms/km MAXIMUM
2	Insulation resistance cond. to cond.	500 V DC	10 Mohms/km MINIMUM
3	Dielectric test	500 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)	1.4 A MIN

4.2 Physical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
7	Temperature rating		-40°C to +105°C
8	Heat resistance	168 hours at 136°C	Insulation resistance Dielectric test
9	Thermal shock	30 minutes at -55°C 5 minutes at +25°C 30 minutes at +85°C 5 minutes at +25°C	Insulation resistance after 25 cycles
10	Cold coiling	96 hours at -40°C / The sample will be wound on a 3mm dia. Mandrel	Insulation resistance Dielectric test Visual inspection
11	Wear by abrasion	Test following EN3475-503 Weight: 500g Speed: 60 cycles/min Abrasion tool: 0.13mm dia.	10000 cycles (standard) 1000 cycles (shielded) MINIMUM
12	Folding	The specimen shall be folded manually (Bending angle: 180° / Radius: 4mm)	20 times MINIMUM
13	Moisture resistance	96 hours at 60°C, 95% RH	Insulation resistance Dielectric test
14	Flame resistance	UL 758 VW-1	Passed
15	Solderability	Immersion of the area which is intended for soldering into a tin bath at 250 ± 10°C During 30 seconds	No delamination Solder reflow below 1 mm

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PRODUCT SPECIFICATION

5 PACKAGING

According to MOLEX packaging specification: PK-15268-001

6 UL APPROVAL

Materials used and construction of cable are UL compliant under UL style 20706

Temperature rating: 105°C

Voltage rating: 60 V AC

7 ROHS COMPLIANCE

Cable construction is RoHS compliant

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TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A4](V.1).DOC			