

PRODUCT SPECIFICATION OF THE 1.00MM CENTER FFC JUMPER CABLE (EXTRA FLEXIBLE)

Revision List

REVISION	MODIFICATION	SHEETS	DATE
A	First Release	1 - 5	2011/01/31

REVISION:	ECR/ECN INFORMATION:			J	SHEET No.
В	<u>EC No:</u> USW2012-0099 DATE: 2011/10/31	1.00MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)		1 of 5	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPR	OVED BY:
PS-15167-001		M.IMIG	D.ENGLISH S.FULTON		ULTON
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1 SCOPE

This specification covers the 1.00mm 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: 1.00MM CENTER FFC JUMPER CABLE (EXTRA FLEXIBLE) Product material no: 15167-XXXX

2.2 Dimensions, materials and markings

Product dimensions according SD-15167-001.





2.3 COMPOSITION

•	Conductor:	Material: Thickness:	Tin plated copper conductor 0.035mm nominal
•	Insulation tape:	Material: Thickness: Color:	Polyester + Flame retardant adhesive 0.043mm nominal white
•	Reinforcement tape	:Material: Thickness: Color:	Polyester + Adhesive 0.23mm nominal Blue

2.4 Safety agency approvals

Not applicable.

3 RATINGS

3.1 Current and applicable conductors

Cross section	Amps
0.025mm ²	1.2

3.2 Temperature

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

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<u>DOCUMENT NUMBER:</u> PS-15167-001		CREATED / REVISED BY: M.IMIG	CHECKED BY: D.ENGLISH	APPRO S.FU	<u>OVED BY:</u> ULTON
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4 PERFORMANCE

4.1 Electrical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Conductor resistance		720 ohms/km MAXIMUM
2	Insulation resistance cond. to cond.	500 V DC	10 Mohms/km MINIMUM
3	Dielectric test	400 V AC for 1 minute	No disruptive discharge
4	Continuity test	3.0 V DC at 0.1mA	passed
	Voltage rating		60 V AC MAXIMUM
5	Current rating	at 23°C increase in 10°C at the surface (all conductors under load)	1.2 A MIN

4.2 Physical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	
8	Temperature rating		-40°C to +105°C	
9	Heat resistance	168 hours at 136°C	Insulation resistance Dielelectric test	
10	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	
11	Cold coiling	96 hours at –40°C / The sample will be wound on a 3mm dia. Mandrel	Insulation resistance Dielectric test Visual inspection	
12	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	
13	Folding	The specimen shall be folded manually (Bending angle: 180° / Radius: 4mm)	20 times MINIMUM	
14	Moisture resistance	96 hours at 60°C, 95% RH	Insulation resistance Dielectric test	
15	Flame resistance	UL 758 VW-1	Passed	
16	Solderability	Immersion of the area which is intended for soldering into a tin bath at $250 \pm 10^{\circ}$ C During 30 seconds	No delamination Solder reflow below 1 mm	





5 PACKAGING

According to MOLEX packaging specification: PK-15167-001

6 UL APPROVAL

These products are UL compliant under: UL style 20706 Temperature rating: 105°C Voltage rating: 60 V AC

7 ROHS COMPLIANCE

Cable construction is RoHS compliant. This includes base FFC, shielded FFC and painted shielded FFC.

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