

PRODUCT SPECIFICATION OF THE 0.50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)

Revision List

REVISION	MODIFICATION	SHEETS	DATE
Α	First Release	1 - 5	2010/09/27
В	Updated Specification	1 - 5	2011/09/29
С	Modified Specification (Sections 2.2, 2.3, 4.1, 6, 7)	1 - 5	2014/05/07

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DOCUMENT NUMBER:		CREATED / REVISED BY: CHECKED BY: APPR		APPRO	OVED BY:
PS-15266-001		M.IMIG	D.ENGLISH	S.Fl	JLTON



SCOPE

This specification covers the 0.50mm center FFC (Flat Flexible Cable) jumper cable, high temperature style, using tin plated copper conductor.

PRODUCT DESCRIPTION

2.1 Product name and series number

Product name: 0.50MM CENTER FFC JUMPER CABLE (HIGH TEMP)

Product material no: 15266-XXXX

2.2 Dimensions, materials and markings

Product dimensions according SD-15266-001.

Number of conductors N: 6 to 50

Pitch P: 0.50 ± 0.05mm

Span ----- E: 0.50 (N-I) ± 0.10mm

Margin width M: 0.5 + 0.15/ - 0.096mm

Strip length $\cdot\cdot\cdot$ S: 4.00 ± 0.80 mm

End thickness of the connection area \cdots Tc: 0.30 ± 0.05 mm Thickness of the insulated area Ti: 0.27 ± 0.05 mm

Insulated length \cdots L: 20 to 60mm \pm 2.00mm

61 to 100mm ± 3.00mm

101 to 200mm ± 4.00mm

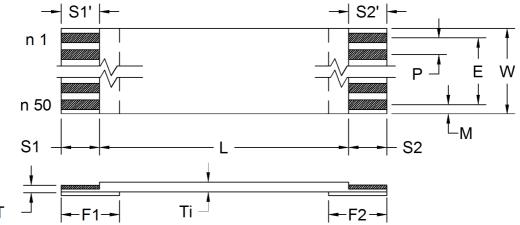
201 to 3999mm ± 5.00mm

4000 to 5999mm \pm 10.00mm

6000 to 9999mm ± 15.00mm

Reinforcement length \cdots F: 8.00 \pm 2.00mm

End squareness ······ s-s': 0.30mm max.



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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	
0.03mm²	0.5	

3.2 Temperature

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

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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.	200 V DC	10 Mohms/km MINIMUM
3	Dielectric test	200 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

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 Dielelectric 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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5 PACKAGING

According to MOLEX packaging specification: PK-15266-001

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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C	DATE: 2014/05/07	(HIG	(HIGH TEMPERATURE)		
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