mole	° PRO	DUCT SPECI	FICATION	I	
	_	UCT SPECIFICAT CENTER FFC JU (HIGH TEMPERA	JMPER CAB		
		Revision Lis	st		
REVISION	J	MODIFICATION	SH	IEETS	DATE
A	First Release		_	1 - 5	2010/09/27
B	Updated Specifica	ation		1 - 5	2011/09/29
C		ation (Sections 2.2, 2.3, 4		1 - 5	2014/05/07
REVISION:	ECR/ECN INFORMATION:		CT SPECIFICATI	ON	SHEET No
REVISION: C	<u>EC No:</u> USW2014-0256	0.50MM CENT	CT SPECIFICATI	R CABL	
	EC No: USW2014-0256	0.50MM CENT		R CABL E)	E <u>SHEET Νο</u> 1 of 5
	EC No: USW2014-0256	0.50MM CENT (HIGH	ER FFC JUMPE	R CABL E)	E 1 of 5



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: 15266-XXXX

2.2 Dimensions, materials and markings

Product dimensions according SD-15266-001.

Pitch ······ Span ····· Total width ······	tors M F E	P: 0.50 ± 0.05mm E: 0.50 (N-I) ± 0.10mn <i>N</i> : 0.50 (N+I) ± 0.10m	m	
	۰۰۰۰۰۰ ۲		nm	
End thickness of the	ne connection area ··· 7	Tc: 0.30 ± 0.05 mm		
	sulated area			
Insulated length ···	L			
		61 to 100mm ± 3.0 101 to 200mm ± 4.0	-	
		201 to 3999mm \pm 5.	-	
		4000 to 5999mm \pm 10		
		6000 to 9999mm ± 15	5.00mm	
	gth F			
End squareness ···	ş	s-s': 0.30mm max.		
_ S1' -		- - S2' 		
n 1	_		- † † E W	,
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S1	L	S2	ĻМ	
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REVISION: ECR/ECN INFORMATION:	TITLE: PRODU	UCT SPECIFICATION	J	SHEET No.
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PRODUCT SPECIFICATION

2.3 COMPOSITION

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

REVISION: C	ECR/ECN INFORMATION: EC No: USW2014-0256 DATE: 2014/05/07	TITLE: PRODUCT SPECIFICATION 0.50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)			<u>SHEET No.</u> 3 of 5
	<u>т NUMBER:</u> S-15266-001			OVED BY: JLTON	
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PRODUCT SPECIFICATION

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 $250 \pm 10^{\circ}$ C During 30 seconds	No delamination Solder reflow below 1 mm

REVISION: C	ECR/ECN INFORMATION: EC No: USW2014-0256 DATE: 2014/05/07	TITLE:PRODUCT SPECIFICATION0.50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)			<u>SHEET No.</u> 4 of 5
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPR	OVED BY:
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PRODUCT SPECIFICATION

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.

REVISION: C	ECR/ECN INFORMATION: EC No: USW2014-0256 DATE: 2014/05/07	0.50MM CEN	JCT SPECIFICATION TER FFC JUMPER (H TEMPERATURE)	-	<u>SHEET No.</u> 5 of 5
DOCUMEN	T NUMBER:	CREATED / REVISED BY: CHECKED BY: APPRO		OVED BY:	
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