



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	2010/09/27
B	Updated Specification	1 - 5	2011/09/29
C	Modified Specification (Sections 2.2, 2.3, 4.1, 6, 7)	1 - 5	2014/05/07

REVISION: C	ECR/ECN INFORMATION: EC No: USW2014-0256 DATE: 2014/05/07	TITLE: PRODUCT SPECIFICATION 0.50MM CENTER FFC JUMPER CABLE (HIGH TEMPERATURE)	SHEET No. 1 of 5
DOCUMENT NUMBER: PS-15266-001	CREATED / REVISED BY: M.IMIG	CHECKED BY: D.ENGLISH	APPROVED BY: S.FULTON



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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
0.03mm ²	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 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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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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