



Part Number : [151660357](#)

Product Description : 0.50mm Pitch Premo-Flex FFC Jumper, Same Side Contacts (Type A), 305.00mm Cable Length, Tin (Sn) Plating, 32 Circuits

Series Number : 15166

Status : Active

Product Category : Flexible Printed Circuit (FPC) Flex Jumpers



Documents & Resources

Drawings

[Drawing 151660357_sd.pdf](#)

Specifications

[Product Specification PS-15166-001-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Not Reviewed per IEC 61249-2-21
REACH SVHC	Not Reviewed per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474

Part Details

General

Status	Active
Category	Flexible Printed Circuit (FPC) Flex Jumpers
Series	15166
Description	0.50mm Pitch Premo-Flex FFC Jumper, Same Side Contacts (Type A), 305.00mm Cable Length, Tin (Sn) Plating, 32 Circuits
Comments	Contacts on the same side, Type A
Product Family	FFC Cable Jumpers, Premo-Flex Flat-Flexible Cable Jumpers
Product Name	Premo-Flex FFC Jumper
UPC	884982848559

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	60V AC

Physical

Cable Length	305.00mm
Circuits (Loaded)	32
Contact Layout Type	A (same side)
Material - Plating Mating	Tin
Net Weight	1.000/g
Packaging Type	Bag
Pitch - Mating Interface	0.50mm
Temperature Range - Operating	-40° to +105°C
Wire/Cable Type	Flat Flex Cable
Wire Size (AWG)	N/A

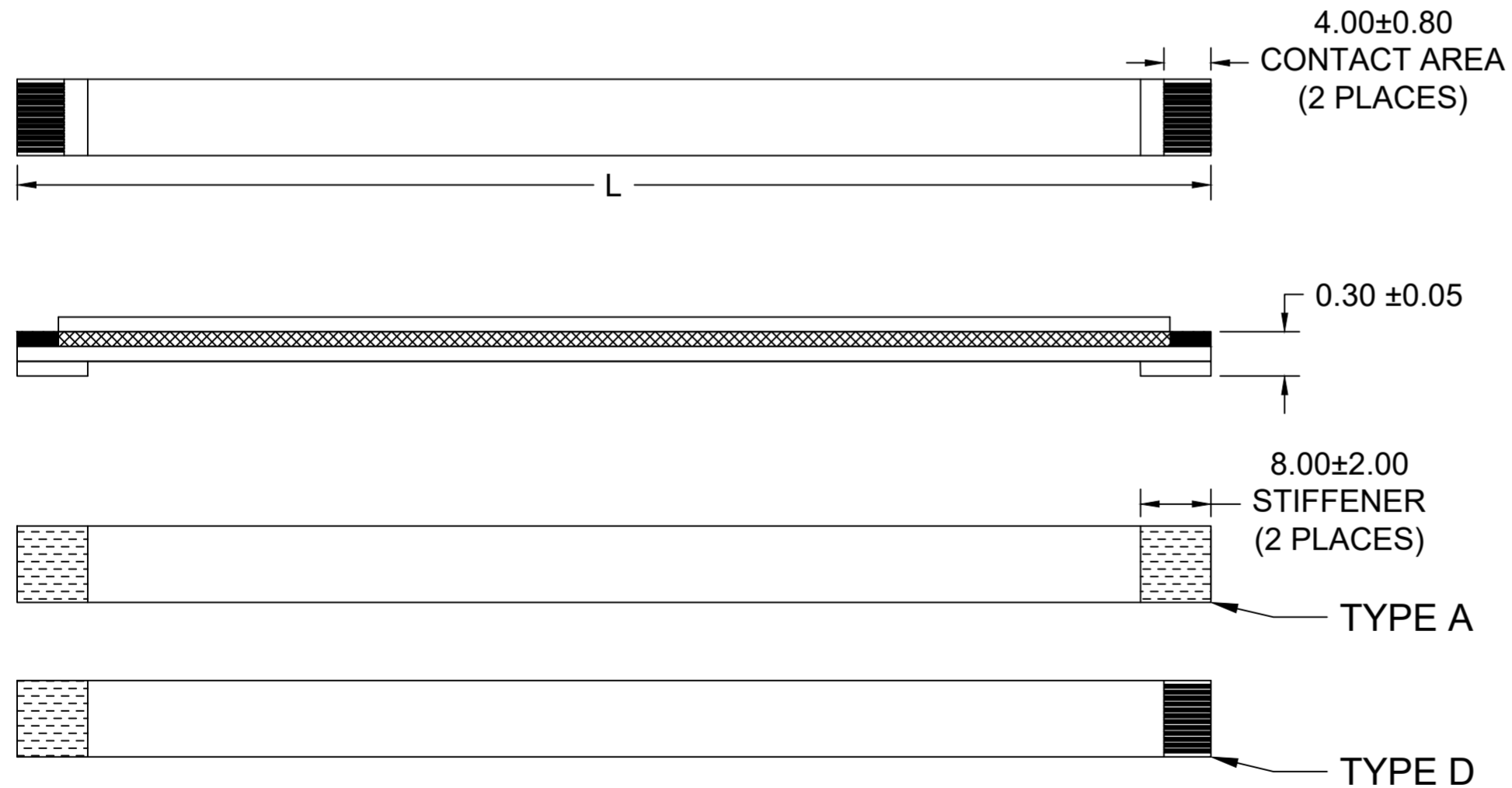
Mates With / Use With

Mates with Part(s)

Description	Part Number
Easy-On FFC/FPC Connector, 0.50mm Pitch, V-Flip Series, Vertical, 4.05mm Height, 32 Circuits, Copper Alloy, Tin-Bismuth Plating	<u>5019513200</u>
Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Vertical, 3.90mm Height, 32 Circuits, Tin-Silver-Bismuth Plating	<u>0525593233</u>
Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Top Contact, 2.00mm Height, 32 Circuits, Tin-Silver-Bismuth Plating	<u>0541043233</u>
Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Bottom Contact, 2.00mm Height, 32 Circuits, Tin-Silver-Bismuth Plating	<u>0541323233</u>

0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, Sn PLATED)

"L" DIM. →	30 ± 2 MM		51 ± 2 MM		76 ± 3 MM		102 ± 3 MM		127 ± 4 MM		152 ± 4 MM		178 ± 4 MM		203 ± 4 MM		229 ± 5 MM		254 ± 5 MM		305 ± 5 MM			
REF DIM →	(1.18 INCH)		(2 INCHES)		(3 INCHES)		(4 INCHES)		(5 INCHES)		(6 INCHES)		(7 INCHES)		(8 INCHES)		(9 INCHES)		(10 INCHES)		(12 INCHES)			
CABLE TYPE →	A		D		A		D		A		D		A		D		A		D		A		D	
CIRCUITS ↓	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D		
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NOTES:

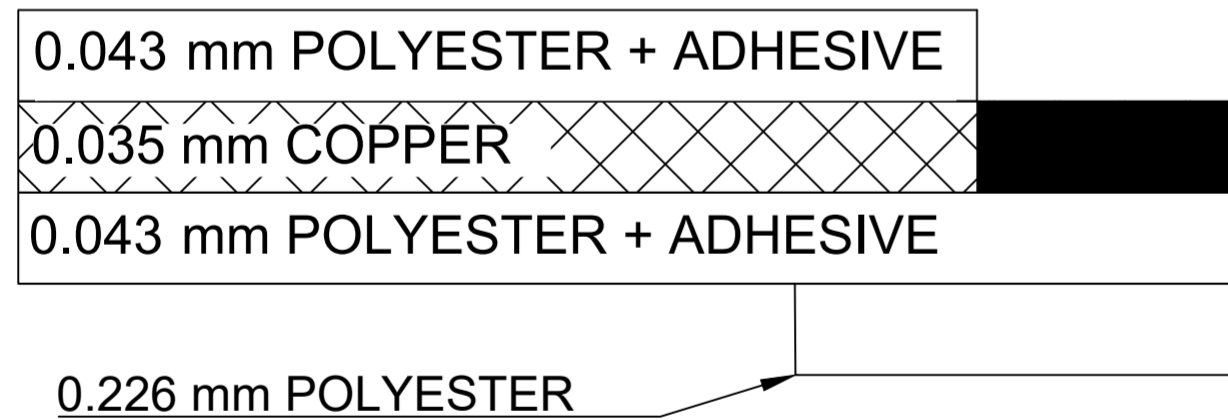
- NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.
- FOR ODD CIRCUIT COUNT, CROSS-SECTION AND END-TAIL DETAIL REFER TO SHEET # 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

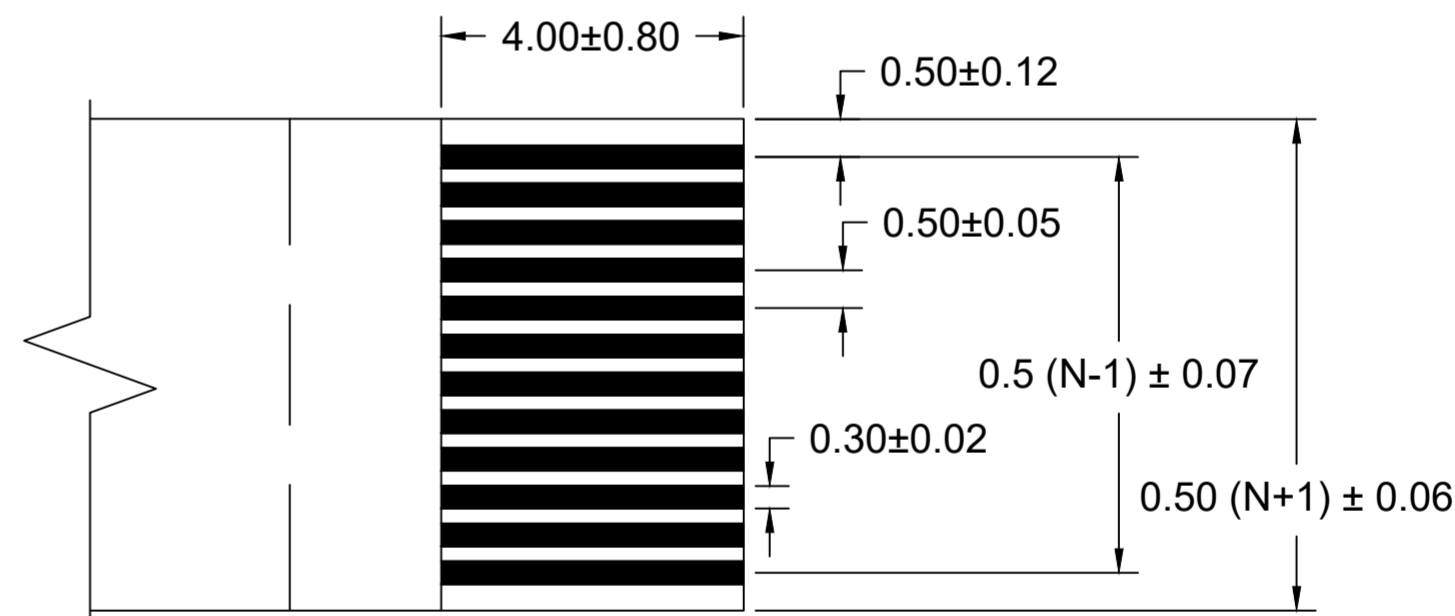
DIMENSION UNITS	SCALE	CURRENT REV DESC: DRAWING CORRECTION		
MM	2:1	<p>molex</p> <p>0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, SN PLATED) SALES DRAWING</p> <p>PRODUCT CUSTOMER DRAWING</p>		
GENERAL TOLERANCES (UNLESS SPECIFIED)				
	mm	INCH	EC NO: 728054	
4 PLACES	±----	±----	DRWN: DIEGOG7	2022/11/10
3 PLACES	±----	±----	CHK'D: JSMITH11	2022/11/14
2 PLACES	±----	±----	APPR: JSMITH11	2022/11/14
1 PLACE	±----	±----	INITIAL REVISION:	
0 PLACES	±----	±----	DRWN: JLWOLFSB	2011/10/27
ANGULAR TOL ± 0.5 °		APPR: SFULTON		2011/11/03
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			C-SIZE	15166
DOCUMENT STATUS		P1	RELEASE DATE	2022/11/14 14:34:44
12		11		10
9		8		7
6		5		4
3		2		1
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
SEE CHART		GENERAL MARKET		1 OF 2
DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-15166-001		PSD	001	B

0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, Sn PLATED)

"L" DIM. →	30 ± 2 MM		51 ± 2 MM		76 ± 3 MM		102 ± 3 MM		127 ± 4 MM		152 ± 4 MM		178 ± 4 MM		203 ± 4 MM		229 ± 5 MM		254 ± 5 MM		305 ± 5 MM			
REF DIM →	(1.18 INCH)		(2 INCHES)		(3 INCHES)		(4 INCHES)		(5 INCHES)		(6 INCHES)		(7 INCHES)		(8 INCHES)		(9 INCHES)		(10 INCHES)		(12 INCHES)			
CABLE TYPE →	A		D		A		D		A		D		A		D		A		D		A		D	
CIRCUITS ↓	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D		
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CROSS-SECTION



END TAIL DETAIL
SCALE 10:1

NOTES:

- NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.

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DIMENSION UNITS		SCALE		CURRENT REV DESC: DRAWING CORRECTION													
MM		NA															
GENERAL TOLERANCES (UNLESS SPECIFIED)						EC NO: 728054		0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, SN PLATED) SALES DRAWING									
		mm	INCH														
4 PLACES	±----	±----					DRWN: DIEGOG7		2022/11/10								
3 PLACES	±----	±----					CHK'D: JSMITH11		2022/11/14								
2 PLACES	±----	±----					APPR: JSMITH11		2022/11/14								
1 PLACE	±----	±----					INITIAL REVISION:										
0 PLACES	±----	±----					DRWN: JLWOLFSB		2011/10/27								
ANGULAR TOL ± 0.5 °						APPR: SFULTON		2011/11/03									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						C-SIZE		15166		SD-15166-001		PSD		001		B	
DOCUMENT STATUS		P1		RELEASE DATE		2022/11/14 14:34:44		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
								SEE CHART		GENERAL MARKET		2 OF 2					

**PRODUCT FAMILY SPECIFICATION FOR
0.50MM PITCH FLAT FLEX CABLE (FFC)
(EXTRA FLEXIBLE, 105°C, Sn PLATED)*****Revision List***

REVISION	MODIFICATION	DATE
A	First release	2011/11/01
B	Margin updated from 0.50 + 0.15/-0.096mm to 0.50 +/- 0.12mm Span updated from 0.50 (N-1) +/- 0.10mm to 0.50 (N-1) +/- 0.07mm	2019/04/04
C	New format	2022/05/31
D	Number of conductors updated	2022/12/08

REVISION: D	ECR/ECN INFORMATION: EC No: 731362 DATE: 2022/12/08	TITLE: PRODUCT FAMILY SPECIFICATION FOR 0.50MM PITCH FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, Sn PLATED)	SHEET No. 1 of 5
DOCUMENT NUMBER: PS-15166-001	CREATED / REVISED BY: D. GOMEZ	CHECKED BY: M. IMIG	APPROVED BY: J. SMITH

1 SCOPE

This product family specification covers the details for 0.50mm center FFC (Flat Flexible Cable) jumper cable, 105°C, using tin plated copper conductor.

2 PRODUCT DESCRIPTION

2.1 Product name and series number

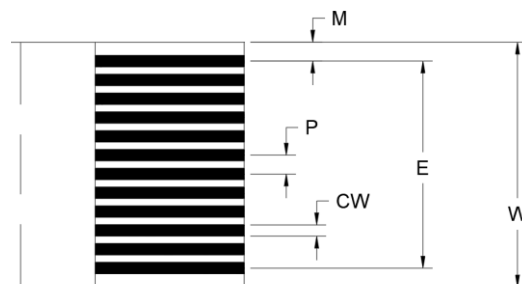
Product name: 0.50MM CENTER FFC JUMPER CABLE (EXTRA FLEXIBLE, 105°C, Sn PLATED)

Product material no: 15166-XXXX

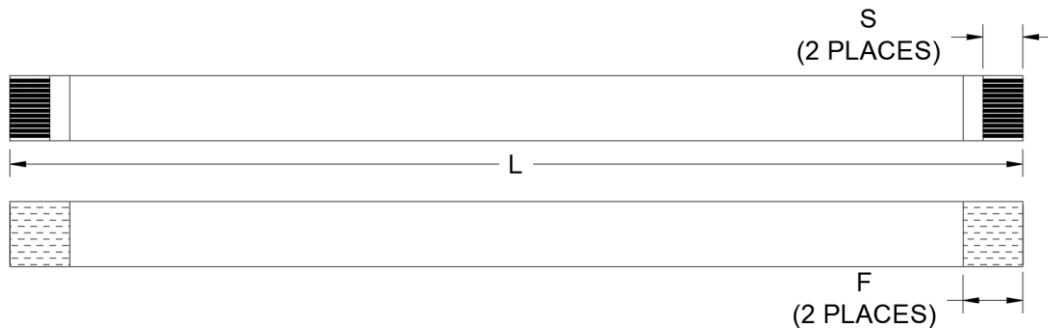
2.2 Dimensions, materials, and markings

Product dimensions (in mm) according to SD-15166-001.

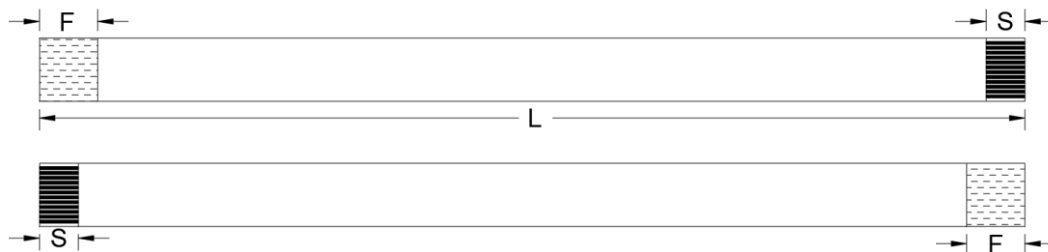
Number of conductors	N	Refer to sales drawing
Pitch	P	0.50 ± 0.05
Span	E	0.50 (N-1) ± 0.07
Total width	W	0.50 (N+1) ± 0.06
Conductor Width	CW	0.30 ± 0.02
Margin width	M	0.50 ± 0.12
Strip length	S	4.00 ± 0.80
End thickness of the connection area	Tc	0.30 ± 0.05
Thickness of the insulated area	Ti	0.12 ± 0.05
Insulated length	L	20 to 60 ± 2.00 61 to 100 ± 3.00 101 to 200 ± 4.00 201 to 3999 ± 5.00 4000 to 5999 ± 10.00 6000 to 9999 ± 15.00
Reinforcement length	F	8.00 ± 2.00
End squareness	s-s'	0.30 max.



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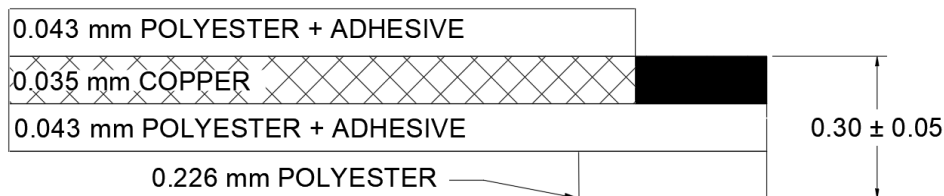
Type A (Contacts on the same side)



Type D (Contacts on the opposite side)

2.3 Composition

- Conductor:
 - Material: Copper
 - Thickness: 0.035 mm nominal
 - Surface Finish: 0.4µm Sn min.
- Insulation tape:
 - Material: Polyester + Flame retardant adhesive
 - Thickness: 0.043 mm nominal
 - Color: white
- Reinforcement tape:
 - Material: Polyester + Adhesive
 - Thickness: 0.226 nominal



2.4 Current and applicable conductors

Conductor Width	Conductor Thickness	Cross section	Current
0.3 mm	0.035 mm	0.01mm ²	0.35 A


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3 ELECTRICAL AND PHYSICAL SPECIFICATIONS

3.1 Electrical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Conductor resistance	23°C	2200 ohms/km MAXIMUM
2	Insulation resistance cond. to cond.	200 V DC	10 MΩ.m MIN
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	UL20706	60 V AC MAXIMUM
6	Current rating	0.35 A (all conductors under load) at 23°C	Maximum 40°C heat rise
7	Impedance cond/cond balanced method	FFC at 1 MHz	150 Ω TYP
8	Capacitance cond/cond balanced method	FFC at 1 KHz	50 pF/m

3.2 Physical requirements

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
9	Operating Temperature		-40°C to +105°C
10	Heat resistance	168 hours at 136°C	Insulation resistance Dielectric test
11	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
12	Cold coiling	96 hours at -40°C / The sample will be wound on a 3mm dia. Mandrel	Insulation resistance Dielectric test Visual inspection
13	Wear by abrasion	Test following EN3475-503 Weight: 500g Speed: 60 cycles/min Abrasion tool: 0.13mm dia.	10,000 cycles MINIMUM
14	Folding	The specimen shall be folded manually at 180°	Continuity after 20 times
15	Flex Lifecycles	Speed: 100 cycles/min R1: 5 mm R2: 10 mm Temp: 23°C 	For R1: 500,000 cycles MIN For R2: 5,000,000 cycles MIN
16	Moisture resistance	96 hours at 60°C, 95% RH	Insulation resistance Dielectric test
17	Flame resistance	UL 758 VW-1	Passed

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18	Solderability	Immersion of the area which is intended for soldering into a tin bath at 250 ± 10°C for 30 seconds	No delamination Solder reflow below 1 mm
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4 UL APPROVAL

These products are UL compliant under:

UL style 20706

Temperature rating: 105°C

Voltage rating: 60 V AC

5 ROHS COMPLIANCE

Cable construction is RoHS compliant.

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		<u>APPROVED BY:</u> J. SMITH	