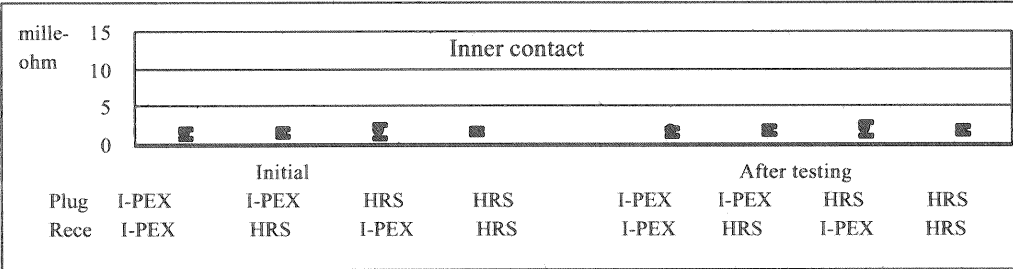


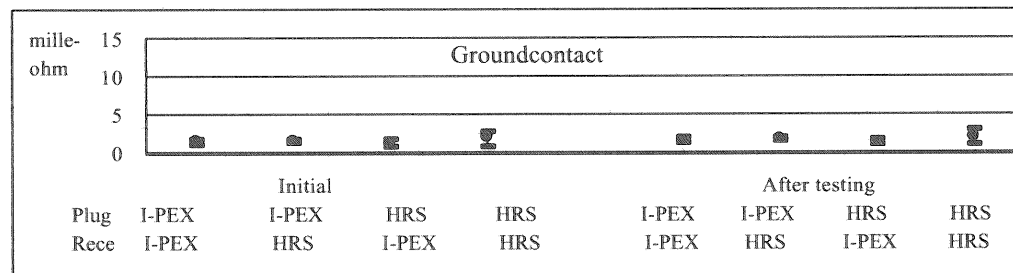
DOCUMENT CLASSIFICATION Qualification Test Report	TITLE Mechanical testing and environmental testing of I-PEX MHF and HIROSE U.FL connector	DOCUMENT No. TR-1029
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(8) Humidity

Contact resistance of inner contact				
Initial				
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.51	1.60	1.84	1.46
MAX.	2.1	2.1	2.6	2.1
MIN.	0.8	1.1	0.8	1.2
S	0.41			
After testing				
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.66	1.74	1.96	1.56
MAX.	2.1	2.2	2.9	2.4
MIN.	1.1	1.3	0.9	1.2
S	0.34			
Units	mille-ohm	mille-ohm	mille-ohm	mille-ohm
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.

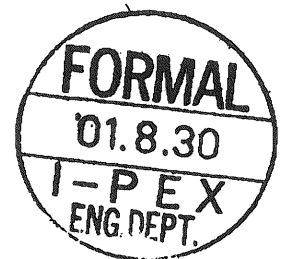


Contact resistance of ground contact				
Initial				
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.44	1.52	1.20	1.96
MAX.	1.8	1.7	1.7	2.8
MIN.	1.0	1.3	0.8	0.7
S	0.25			
After testing				
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.55	1.66	1.30	2.06
MAX.	1.9	2.0	1.8	2.9
MIN.	1.2	1.4	0.9	1.0
S	0.25			
Units	mille-ohm	mille-ohm	mille-ohm	mille-ohm
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.



Patent of MHF series micro coaxial connector

No. IER-001-00572



REV.	ECN	BY	DATE	APP.	Prepared by	Reviewed by	Approved by
1	R1111	K.O	AUG/30/01	<i>[Signature]</i>	K.Ohbayashi JUL/05/01	E.Kawabe JUL/06/01	K.Katabuchi JUL/09/01
0	R1063	K.O	JUL/05/01	<i>[Signature]</i>			
REVISION RECORD							

DOCUMENT CLASSIFICATION	TITLE	No.
Technical Report	Patent of MHF series micro coaxial connector	IER - 001 - 00572

1. Name, part No. :MHF series micro coaxial connector , 20278-001R-**,20279-001E-01

2. Contents

Our MHF series micro coaxial connector does not conflict with Hirose's patent under our research of patent issues at this moment.

弊社MHFシリーズ超小型同軸コネクタは、弊社調査結果においてはヒロセ電機の特許に抵触していない事を報告します。

 SUMITOMO ELECTRIC INDUSTRIES, LTD

Sheet No. 1

3-3, Satsuki-cho, Kanuma, Tochigi, 322-8585 JAPAN
Tel.(028978)-0324 Fax.(028976)-2789

Head Office : Osaka
International Div: Tokyo

Messrs, High Tek

Date Oct. 9, 2002
Spec. No. IEEB-01026B

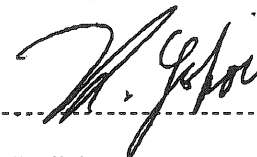
SPECIFICATION

FOR

LVCX Series
50Ω SUMIFRON® Insulation Coaxial Cable

0.7DS-PBE (COLOR)

SIGNED BY



K. Yokoi

Manager of Data Transmission
Engineering Section
Data Transmission Cable
Component Department
Electronic Wire Division

SUMITOMO ELECTRIC INDUSTRIES, LTD

Sheet No. 2
IEE8-01026B

1. Scope
This specification covers the construction and the electrical properties of 50Ω SUMIFRON® Insulation Coaxial Cable.

[0.7DS-PBE (COLOR)]

2. Construction Unit: mm

Item		Details
Conductor	Material	Silver-coated copper wire
	Composition	7/0.079
	Nom. O. D.	0.237 (±0.03)
Insulation	Material	SUMIFLON® P (Natural)
	Nom. thick.	0.22
	Nom. O. D.	0.67 (±0.03)
Shield	Material	Silver-coated copper wire
	Composition	Single braid of 0.05
Jacket	Material	SUMIFLON® E (Color) **
	Nom. thick.	0.11
	Nom. O. D.	1.13 (±0.05)

3. Electrical Properties (at 20°C)

Item	Unit	Details
Conductor Resistance	Ω/km	Max. 567
Insulation Resistance	MΩ-km	Min. 305
Dielectric strength	ACV/1min.	500
Capacitance	pF/m	97 (1kHz)
Characteristic Impedance	Ω	50 ± 2 (TDR)
Attenuation *	dB/m	Nom. 1.82 (0.9GHz)
		Nom. 2.37 (1.5GHz)
		Nom. 2.70 (1.9GHz)
		Nom. 3.05 (2.4GHz)
		Nom. 3.43 (3.0GHz)
		Nom. 3.94 (4.0GHz)
		Nom. 4.45 (5.0GHz)
		Nom. 4.89 (5.8GHz)
		Nom. 5.16 (6.0GHz)

* Maximum Value = Nom. Value × 1.15
** White, Black, Blue, Gray