

QUALIFICATION TEST REPORT

テストレポート

No. TR-1021**MHF series micro coaxial connector****Product Specification No. PRS-1176**

					Prepared by	Reviewed by	Approved by
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REV.	ECN	BY	DATE	APP.			
REVISION RECORD							

DOCUMENT CLASSIFICATION	TITLE	No.
Qualification Test Report テストレポート	MHF series micro coaxial connector	TR-1021

1. Purpose / 目的

Testing was performed on the MHF series micro coaxial connector to determine meets the requirement of I-PEX specification, PRS-1176

MHF series micro coaxial connector の性能を製品規格 PRS-1176 に基づいて評価する。

2. Conclusion / 結論

All the specimen met the requirements of PRS-1176.

全ての試料が製品規格 (PRS-1176) の条件を満足した。

3. Sample / 試料

(1) Plug : part No.20278-001R-13

Receptacle : part No.20279-001E-01

Cable : AWG#32 coaxial cable (jacket diameter 1.13mm)

(2) Plug : part No.20278-001R-32

Receptacle : part No.20279-001E-01

Cable : AWG#32 coaxial cable (jacket diameter 1.32mm)

4. Method / 方法

Refer to product specification, PRS-1176

製品規格 (PRS-1176) 参照。

5. Results / 結果

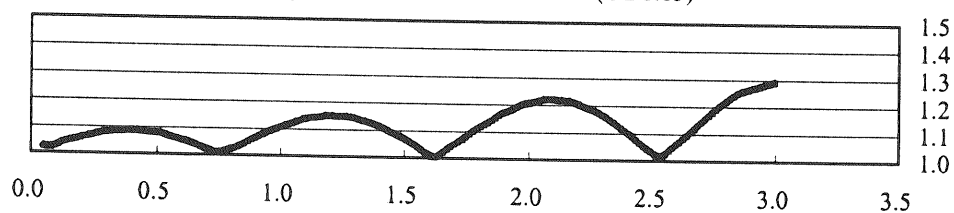
(1) Dielectric withstanding voltage(耐電圧)

Results(結果)	No abnormality(異常無し)
Sample quantity(試料数)	10pcs.
Judge(判定)	OK

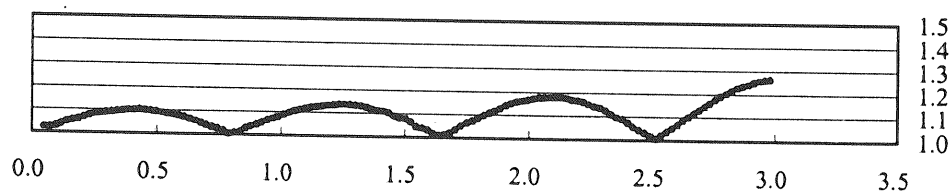
(2) VSWR

	Plug		Receptacle
	20278-001R-13	20278-001R-32	
AVE.	1.284	1.260	1.120
MAX.	1.29	1.27	1.13
MIN.	1.28	1.25	1.11
Specification(規格)	1.3 MAX.	1.3 MAX.	1.3 MAX.
Sample quantity(試料数)	5pcs.	5pcs.	5pcs.
Judge(判定)	OK	OK	OK

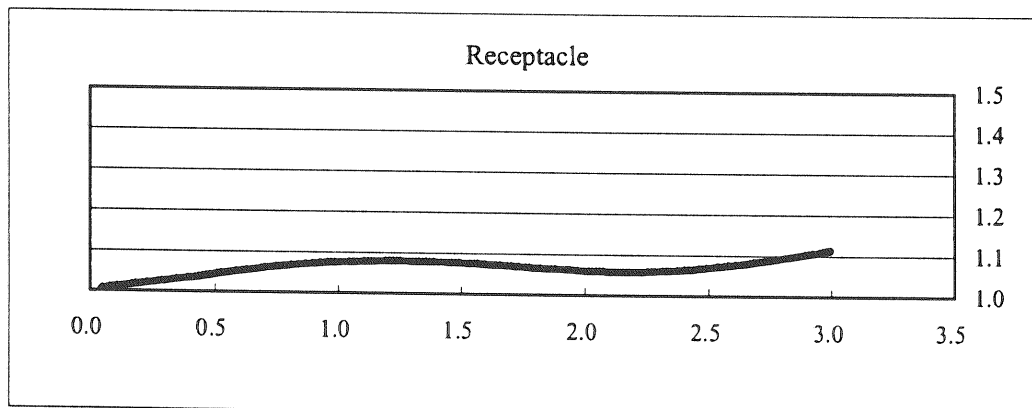
Plug 20278-001R-13 + AWG#32(OD1.13)



Plug 20278-001R-32 + AWG#(OD1.32)

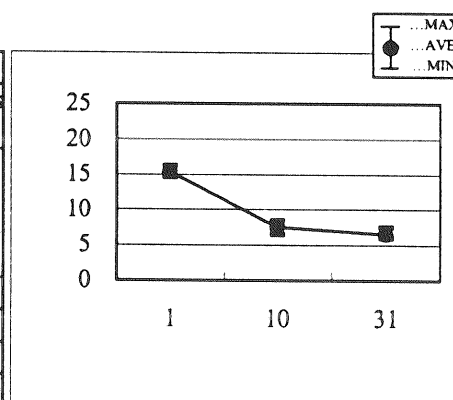


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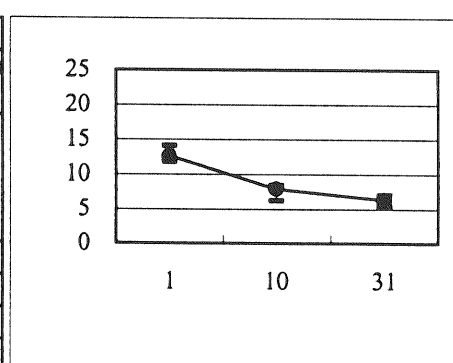


(3) Mating & unmating force(挿抜力)

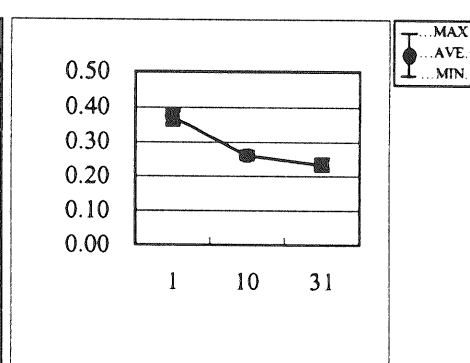
Total mating force (総合挿入力)	Initial (初期)	After 30cycles (30回後)
AVE.	15.3	6.5
MAX.	16	7
MIN.	15	6
S	0.5	0.4
Specification(規格)	20 MAX.	15 MAX.
Units(単位)	N	N
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



Total unmating force (総合抜去力)	Initial (初期)	After 30cycles (30回後)
AVE.	12.6	6.2
MAX.	14	7
MIN.	12	5
S	0.8	0.6
Specification(規格)	5 MIN.	3 MIN.
Units(単位)	N	N
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



Unmating force of inner contact (中心導体抜去力)	Initial (初期)	After 30cycles (30回後)
AVE.	0.372	0.233
MAX.	0.39	0.25
MIN.	0.35	0.22
S	0.015	0.012
Specification(規格)	0.15 MIN.	0.1 MIN.
Units(単位)	N	N
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



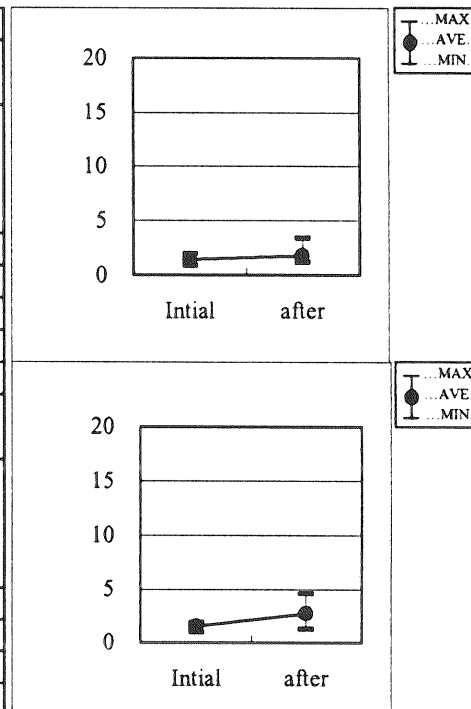
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(4) Durability(耐久性)

4-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

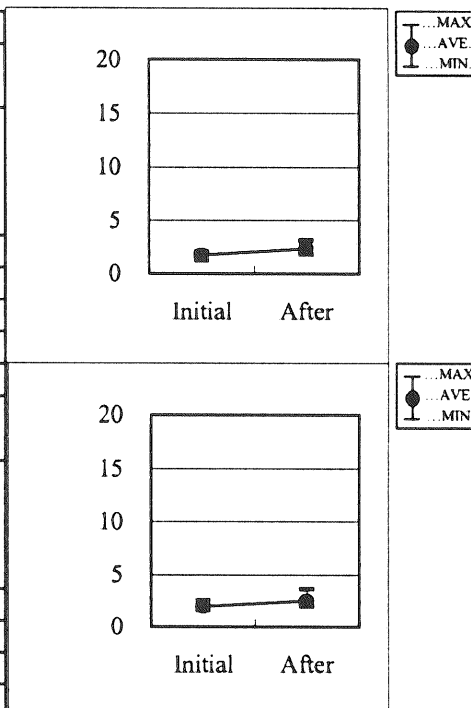
Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.42	1.80
MAX.	2.0	3.4
MIN.	0.9	1.2
S	0.36	0.68
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.54	2.74
MAX.	1.9	4.6
MIN.	1.0	1.3
S	0.31	1.07
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



4-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.71	2.32
MAX.	2.0	3.1
MIN.	1.2	1.8
S	0.24	0.43
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.96	2.48
MAX.	2.5	3.6
MIN.	1.6	2.0
S	0.32	0.55
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



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(5) Cable retention force(ケーブル保持力)

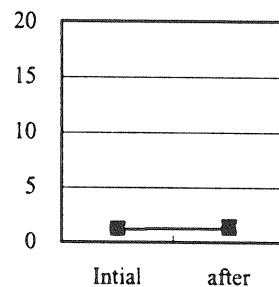
5-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

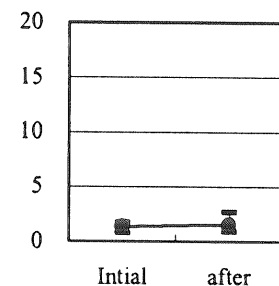
Contact resistance of inner contact

(中心導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.18	1.31
MAX.	1.7	2.0
MIN.	0.8	0.9
S	0.34	0.36
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

MAX
AVE
MIN

Contact resistance of ground contact

(外部導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.33	1.52
MAX.	1.7	2.7
MIN.	0.7	0.9
S	0.32	0.51
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

MAX
AVE
MIN

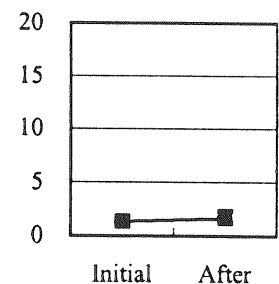
5-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

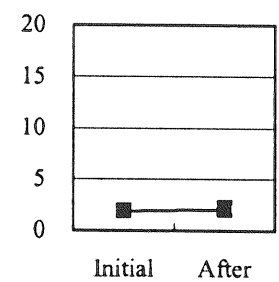
Contact resistance of inner contact

(中心導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.31	1.62
MAX.	1.8	2.3
MIN.	0.9	1.2
S	0.33	0.39
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

MAX
AVE
MIN

Contact resistance of ground contact

(外部導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.85	2.05
MAX.	2.4	2.7
MIN.	1.4	1.5
S	0.37	0.42
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

MAX
AVE
MIN

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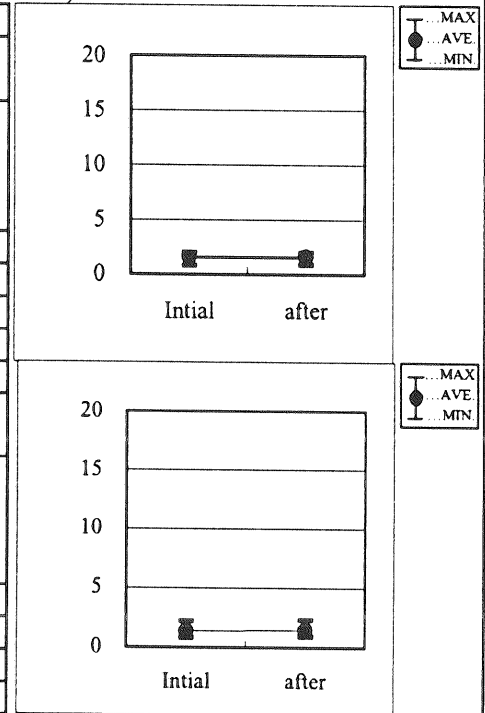
(6) Vibration(振動)

6-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.53	1.61
MAX.	2.0	2.0
MIN.	0.8	0.9
S	0.42	0.38
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.38	1.44
MAX.	2.2	2.3
MIN.	0.8	0.9
S	0.47	0.47
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

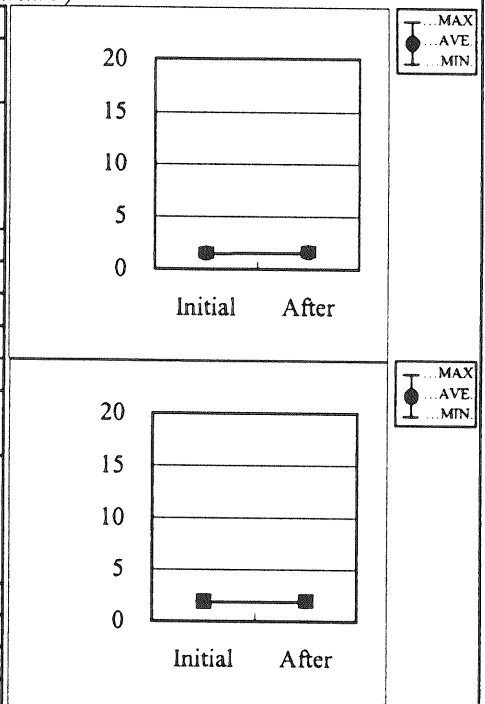


6-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.49	1.61
MAX.	1.9	2.0
MIN.	1.2	1.3
S	0.21	0.20
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.86	1.91
MAX.	2.4	2.4
MIN.	1.4	1.5
S	0.28	0.26
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



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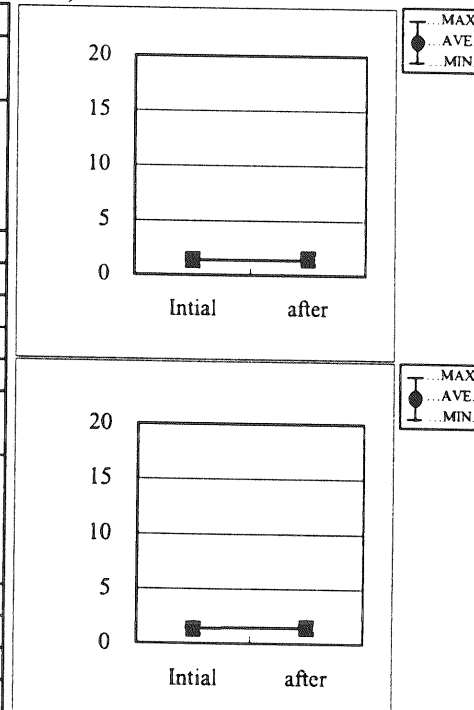
(7) Shock(衝撃)

7-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.38	1.42
MAX.	1.9	2.0
MIN.	0.8	0.9
S	0.35	0.38
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.40	1.51
MAX.	1.8	2.0
MIN.	0.8	0.9
S	0.32	0.34
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

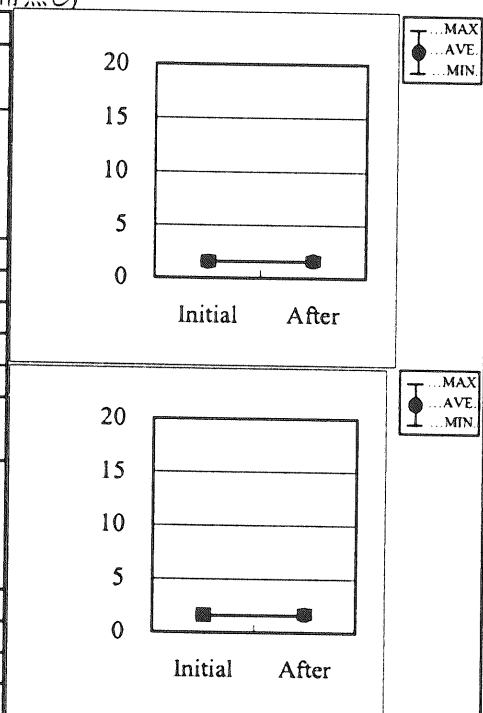


7-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Electrical discontinuity(電気瞬断) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.53	1.58
MAX.	1.9	1.9
MIN.	1.2	1.3
S	0.23	0.20
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK
Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.61	1.70
MAX.	2.1	2.1
MIN.	1.2	1.4
S	0.28	0.25
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



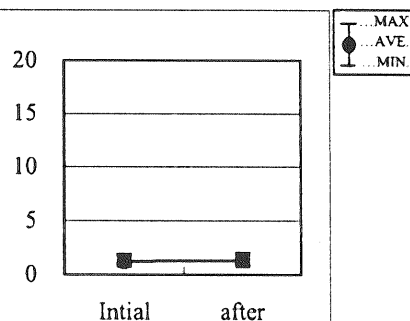
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(8) Thermal shock(熱衝撃)

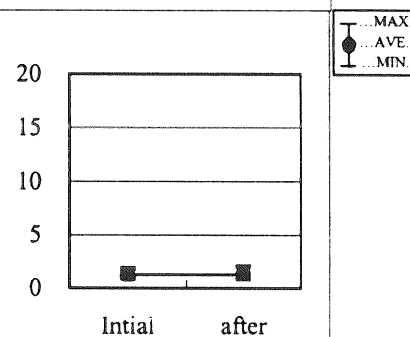
8-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.20	1.32
MAX.	1.8	1.9
MIN.	0.9	0.9
S	0.28	0.32
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.22	1.29
MAX.	1.8	2.0
MIN.	0.9	0.9
S	0.35	0.37
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

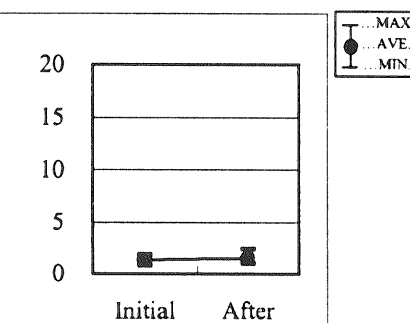


Insulation resistance (絶縁抵抗)		
	Initial (初期)	After testing (試験後)
Results(結果) MIN. value	10,000	10,000
Specification(規格)	500 MIN.	100 MIN.
Units(単位)	mega-ohm	mega-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

8-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

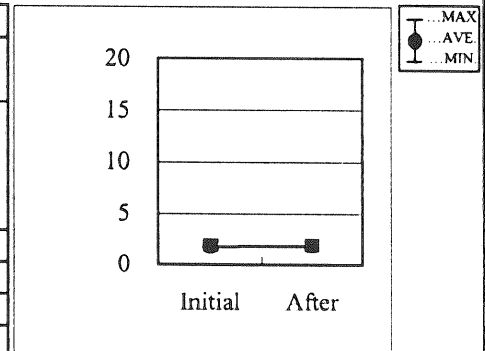
Appearance(外観) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.33	1.50
MAX.	1.8	2.4
MIN.	0.5	1.0
S	0.38	0.44
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



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Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.76	1.85
MAX.	2.3	2.3
MIN.	1.5	1.5
S	0.26	0.27
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



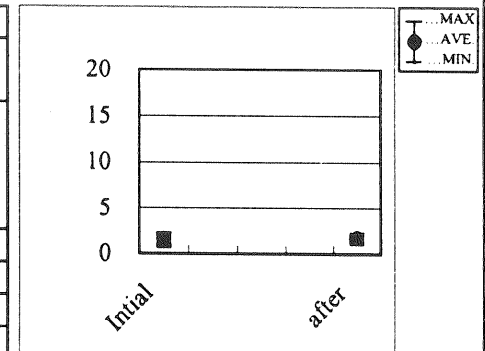
Insulation resistance (絶縁抵抗)		
	Initial (初期)	After testing (試験後)
Results(結果) MIN. value	10,000	10,000
Specification(規格)	500 MIN.	100 MIN.
Units(単位)	mega-ohm	mega-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

(9) Humidity(湿度)

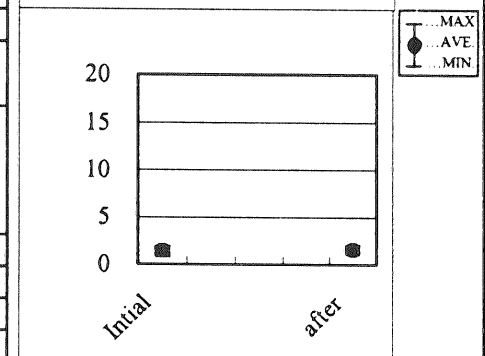
9-1 20278-001R-13 +AWG#32 (OD1.13) coaxial cable

Appearance(外観) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.51	1.66
MAX.	2.1	2.1
MIN.	0.8	1.1
S	0.41	0.34
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



Contact resistance of ground contact (外部導体接触抵抗)		
	Initial (初期)	After testing (試験後)
AVE.	1.44	1.55
MAX.	1.8	1.9
MIN.	1.0	1.2
S	0.25	0.25
Specification(規格)	10 MAX.	10 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



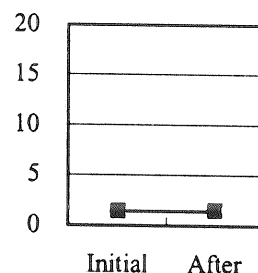
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Insulation resistance (絶縁抵抗)	Initial (初期)	After testing (試験後)
Results(結果) MIN. value	10,000	10,000
Specification(規格)	500 MIN.	100 MIN.
Units(単位)	mega-ohm	mega-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

9-2 20278-001R-32 +AWG#32 (OD1.32) coaxial cable

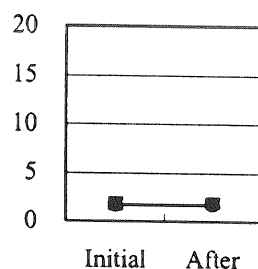
Appearance(外観) : No abnormality(異常無し)

Contact resistance of inner contact (中心導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.42	1.46
MAX.	1.6	2.0
MIN.	0.9	1.0
S	0.31	0.32
Specification(規格)	20 MAX.	25 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



MAX
AVE
MIN

Contact resistance of ground contact (外部導体接触抵抗)	Initial (初期)	After testing (試験後)
AVE.	1.70	1.77
MAX.	2.3	2.3
MIN.	1.3	1.5
S	0.33	0.30
Specification(規格)	10 MAX.	15 MAX.
Units(単位)	mille-ohm	mille-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK



MAX
AVE
MIN

Insulation resistance (絶縁抵抗)	Initial (初期)	After testing (試験後)
Results(結果) MIN. value	10,000	10,000
Specification(規格)	500 MIN.	100 MIN.
Units(単位)	mega-ohm	mega-ohm
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

(10) Salt water spray
(塩水噴霧)

	Initial(初期)	After testing(試験後)
Results(結果)	No abnormality(異常無し)	No abnormality(異常無し)
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

(11) Solderability, reflow soldering resistance(半田付け性, 半田耐熱性)

	Solderability(半田付け性)	Reflow soldering resistance(半田耐熱性)
Results(結果)	No abnormality(異常無し)	No abnormality(異常無し)
Sample quantity(試料数)	10pcs.	10pcs.
Judge(判定)	OK	OK

QUALIFICATION TEST REPORT**Document No. TR-1029****Mechanical testing and environmental testing of I-PEX MHF
series micro coaxial connector and HIROSE U.FL. Connector**

					Prepared by	Reviewed by	Approved by
					K.Ohbayashi OCT/05/01	E.Kawabe OCT/05/01	K.Katabuchi OCT/05/01
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REV.	ECN	BY	DATE	APP.			
REVISION RECORD							

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

1. Purpose

To perform the mechanical testing and environmental testing of I-PEX MHF series micro coaxial connector and HIROSE U.FL connector

2. Conclusion

There are no abnormality at all combinations

3. Sample

(1) I-PEX connector

Plug : part No.20278-001R-13

Cable : AWG#32 coaxial cable (jacket diameter 1.13mm)

Receptacle : part No.20279-001E-01

(2) HIROSE connector

Plug : part No.U.FL-LP-040(01)

Cable : VSWR test AWG#32 coaxial cable (jacket diameter 1.13mm)

Cable : environmental test AWG#36 coaxial cable (jacket diameter 0.81mm)

Receptacle : part No.U.FL-R-SMT(10)

3. Method

Refer to product specification, PRS-1176

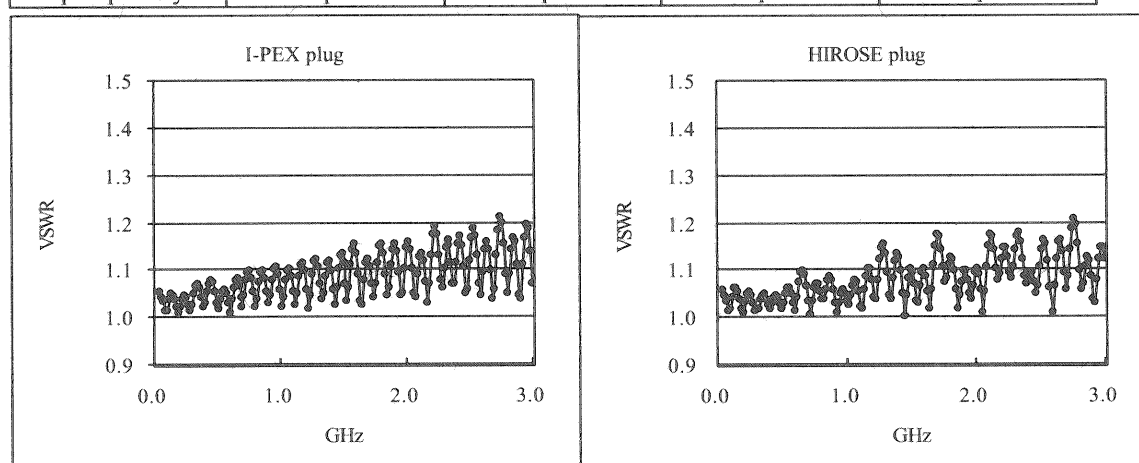
4. Results

(1) Dielectric withstanding voltage

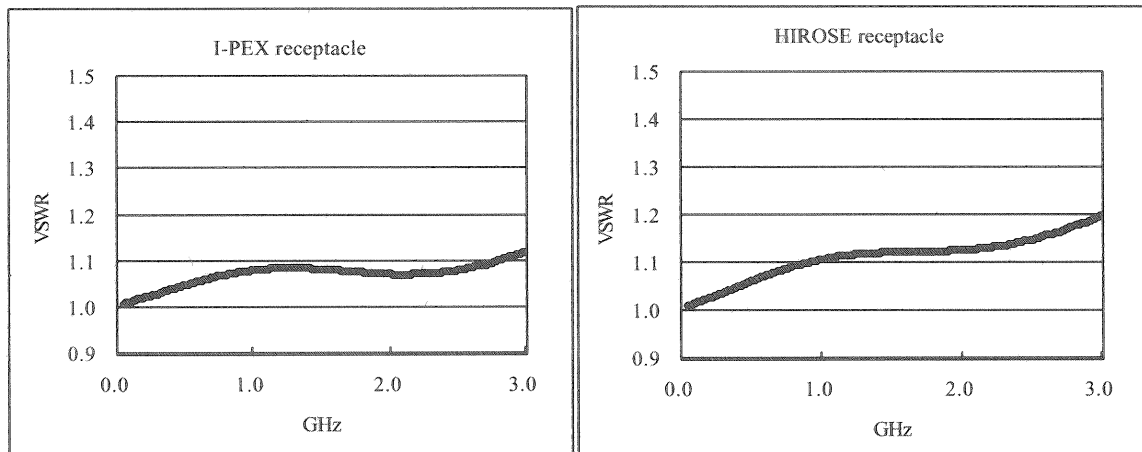
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
Results	No abnormality	No abnormality	No abnormality	No abnormality
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.

(2) VSWR

	I-PEX plug AWG#32 coaxial cable length 995mm	HIROSE plug AWG#32 coaxial cable length 995mm	I-PEX receptacle	HIROSE receptacle
AVE.	1.185	results	1.120	1.141
MAX.	1.20	No.1 1.18	1.13	1.19
MIN.	1.17	No.2 1.17	1.11	1.08
Sample quantity	5 pcs.	2 pcs.	5 pcs.	5 pcs.



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(3) Mating & unmating force

Total mating force	Initial		After 30 cycles	
Plug	I-PEX	I-PEX	I-PEX	I-PEX
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	15.3	15.0	6.5	6.8
MAX.	16	16	7	7
MIN.	15	14	6	6
S	0.5		0.4	
Units	N	N	N	N
Sample quantity	10pcs.	5pcs.	10pcs.	5pcs.

Total unmating force	Initial		After 30 cycles	
Plug	I-PEX	I-PEX	I-PEX	I-PEX
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	12.6	14.7	6.2	7.3
MAX.	14	16	7	8
MIN.	12	14	5	7
S	0.8		0.6	
Units	N	N	N	N
Sample quantity	10pcs.	5pcs.	10pcs.	5pcs.

Unmating force of inner contact

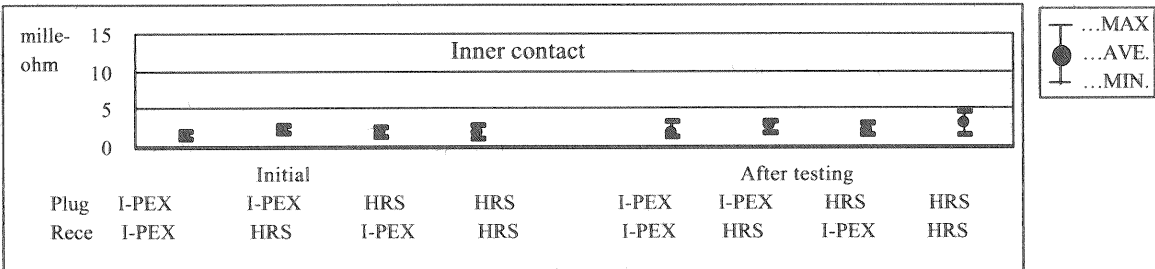
	Initial		After 30 cycles	
Plug	I-PEX	I-PEX	I-PEX	I-PEX
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	0.372	0.400	0.233	0.274
MAX.	0.39	0.43	0.25	0.32
MIN.	0.35	0.36	0.22	0.25
S	0.015		0.012	
Units	N	N	N	N
Sample quantity	10pcs.	5pcs.	10pcs.	5pcs.

DOCUMENT CLASSIFICATION	TITLE	DOCUMENT No.
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(4) Durability

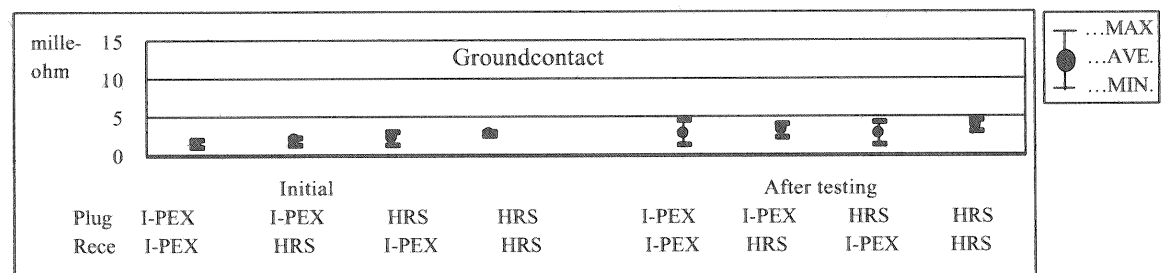
Contact resistance of inner contact

Plug Receptacle	Initial			
	I-PEX	I-PEX	HIROSE	HIROSE
AVE.	1.42	2.21	1.80	2.06
MAX.	2.0	2.7	2.5	3.0
MIN.	0.9	1.7	1.2	1.4
S	0.36			
Plug Receptacle	After 30 cycles			
	I-PEX	I-PEX	HIROSE	HIROSE
AVE.	1.80	2.68	2.06	3.06
MAX.	3.4	3.2	3.0	4.5
MIN.	1.2	1.9	1.4	1.4
S	0.68			
Units	mille-ohm	mille-ohm	mille-ohm	mille-ohm
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.



Contact resistance of ground contact

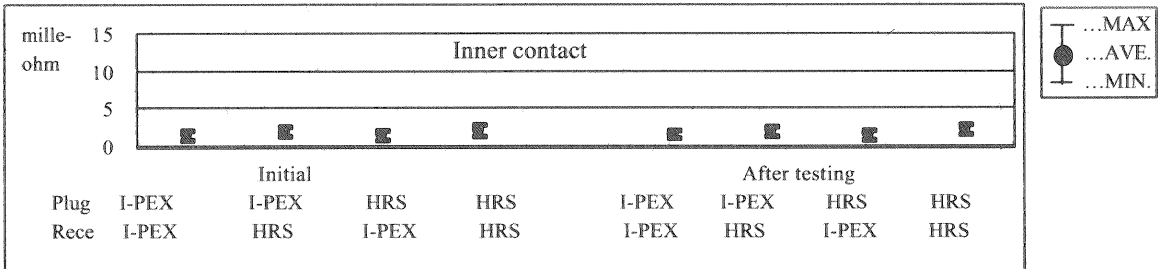
Plug Receptacle	Initial			
	I-PEX	I-PEX	HIROSE	HIROSE
AVE.	1.54	1.95	2.32	2.76
MAX.	1.9	2.3	3.0	3.0
MIN.	1.0	1.3	1.2	2.6
S	0.31			
Plug Receptacle	After 30 cycles			
	I-PEX	I-PEX	HIROSE	HIROSE
AVE.	2.74	3.16	2.78	3.74
MAX.	4.6	4.1	4.2	4.4
MIN.	1.3	2.3	1.3	3.1
S	1.07			
Units	mille-ohm	mille-ohm	mille-ohm	mille-ohm
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.



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(5) Vibration Electrical discontinuity : no abnormality at all combinations.

Contact resistance of inner contact				
	Initial			
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.53	1.88	1.42	1.98
MAX.	2.0	2.5	2.0	2.8
MIN.	0.8	1.2	0.8	1.3
S	0.42			
	After 30 cycles			
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.61	1.94	1.57	2.18
MAX.	2.0	2.6	2.1	2.8
MIN.	0.9	1.2	0.8	1.6
S	0.38			
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.	1.38	1.60	1.98	1.70
MAX.	2.2	2.0	2.5	2.8
MIN.	0.8	1.0	1.5	1.0
S	0.47			
	After testing			
Plug	I-PEX	I-PEX	HIROSE	HIROSE
Receptacle	I-PEX	HIROSE	I-PEX	HIROSE
AVE.	1.44	1.76	2.11	1.90
MAX.	2.3	2.2	2.6	3.1
MIN.	0.9	1.0	1.6	1.2
S	0.47			
Units	mille-ohm	mille-ohm	mille-ohm	mille-ohm
Sample quantity	10pcs.	5pcs.	5pcs.	5pcs.

