



IPT-HD-1P 120/150mm² HUBER+SUHNER CABLE
APPLICATION SPECIFICATION

IPT-HD-1P 120/150mm² HUBER+SUHNER 线缆产品应用规范书



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- ◆ This connector is intended for use in high-voltage applications. Special care must be applied to ensure that the connector functions as intended.
- ◆ If you suspect that the connector has been modified, damaged, contaminated or other wise compromised, please discontinue it use immediately.
- ◆ This connector should only be serviced by a trained and qualified technician.

1. SCOPE 适用范围

1.1 Content 内容

This specification covers the requirements for application of the sealed IPT-HD 1P 120/ 150 mm² High Voltage connector. The IPT-HD connector system is designed to meet LV215-2 specifications. The connector incorporates conductive EMI shielding to reduce radiated emissions in the application. The housings are molded in orange to denote a high voltage system. This specification utilizes EMPT crimping for the terminals and mechanical crimping for the shielding ring .

该规范涵盖了密封IPT-HD 1P 120/ 150mm² 高压连接器的应用要求. IPT-HD连接器系统的设计符合LV215-2规范. 该连接器采用导电EMI屏蔽, 以减少应用中的辐射。外壳采用橙色模制, 表示高压系统。此规范端子使用EMPT压接方式、屏蔽环使用机械压接方式。

1.2 Processing notes 加工说明

The processor is responsible for ensuring the quality of the manufacturing process and the proper function of the system. The warranty and liability is excluded, if quality deficiency or damages occurs by failing compliance to this specification or using not specified, not released tools or not released connector components.

加工者负责确保制造过程的质量和系统的正常功能。如果由于未遵守本规范或使用未定义的、未发布的工装或未发布的连接器组件而导致质量异常或损坏, 则不承担保修和责任。

2. APPLICABLE DOCUMENTS 适用文件

The following mentioned documents are part of this specification. If there is a conflict between the information contained in the documents and this specification or with any other technical documentation supplied, the last valid customer drawings takes preference.

以下提到的文件是本说明书的一部分。 如果文档中包含的信息与本规范或提供的任何其他技术文档之间存在冲突, 则最新有效的客户图纸优先。

2.1 TE Connectivity Documents 泰科电子文件

This Application Specification based on the latest valid customer drawings.

本应用规范基于最新的有效客户图纸。

2.1.1 Customer drawings 客户图纸

Drawing No./ Component Description List	
C-2443907	1pos Ring Tongue, Housing, Assy For 120/150mm ²
C-2443908	Protective cover For 120/150mm ²



C-2428363	Shielding Sleeve For 120/150mm ²
C-2428360	Shielding For 120/150mm ²
C-2428362	Single wire seal For 120/150mm ²
C-2430382	Ring tongue For 120/150mm ²
C-2479720	IPT HD 120-150 PLUG CAP
C-2482724	IPT HD 120-150 HEADER CAP

Table 1: Customer drawings

2.1.2 Specifications 规范

Specifications	Description
114-160560	IPT HD 1P 120/150mm ² ISO CABLE APPLICATION SPECIFICATION
108-160915	IPT HD 1P 120/150mm ² ISO CABLE SPECIFICATION

Table 2: TE-specifications

2.2 General Documentation 通用文档

2.2.1 Cable Specification 线缆规格

Cable specifications of tested high voltage (HV) high flexible cables, shielded

Supplier: ISO Huber Suhner (Part No.: 85010929)

Cross-section: 120mm²

Core diameter: Max. 15.3 mm²

Outer diameter: 22.6+/-0.4 mm²

Cable specifications of tested high voltage (HV) high flexible cables, shielded

Supplier: ISO Huber Suhner (Part No.: 85163659)

Cross-section: 150mm²

Core diameter: Max. 17.2 mm²

Outer diameter: 25.0+/-0.5 mm²

The connector is designed and qualified with LV 215, 120/150 mm² FLEX wire size (acc. to ISO 6722-1 class D, ISO 19642-9 class D). Cable Specification acc. to the appendix.

连接器设计符合LV 215标准规范, 120/150mm² 线径柔性电缆 (符合ISO 6722-1 class D, ISO 19642-9 class D)。线缆规格见附录。

If the wires listed cannot meet your requirements, please contact with the responsible TE Connectivity employees.
如果上面列出的线缆不能满足你的需求, 请联系TE的负责人员。

3. CONDITION OF DELIVERY AND PACKAGING 交货和包装状态

3.1 Components 零部件

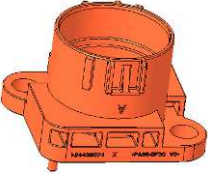
Description 描述	Picture for ref. 图片	Usage 用量	PN for 150mm ² 150 平方线部件号	PN for 120mm ² 120 平方线部件号
1pos Ring Tongue, Housing Assy		1	*-2443907-1(PA66) *-2443907-2(PA10T) (Please refer to the customer drawing for detail PN)	
Protective cover		1	*-2443908-2 (Please refer to the customer drawing for detail PN)	*-2443908-1 (Please refer to the customer drawing for detail PN)
Shielding sleeve		1	2428363-2	2428363-1
Shielding		1	2428360-2	2428360-1
Single wire seal		1	2428362-2	2428362-1
Ring tongue		1	2430382-2	2430382-1
Heat-shrinkable tubing		N/A	5039244037	

Table 3: required components for assembly of IPT-HD 1POS for 120/150mm²

3.2 Optional Accessories & Associated Parts 可选配件和相关部件

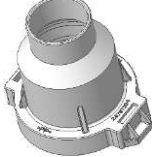
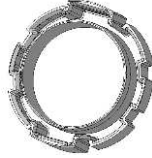
Description 描述	Picture for ref. 图片	Usage 用量	PN for 150mm ² 150 平方线部件号	PN for 120mm ² 120 平方线部件号
Plug transportation cap		1	2479720-1	
Header transportation cap		1	2482724-1	

Table 4: Optional Accessories & Associated Parts for assembly of IPT-HD 1POS for 120/150mm²

3.3 Packaging and Storage 包装和贮存

The products should be used on a “first in, first out” basis to avoid storage contamination, please refer to the latest valid customer drawings.

为避免存储污染，产品应以“先进先出”的原则使用，请参见最新的有效客户图纸。

4. APPLICATION TOOLS 应用工装

The Application tools are only valid for the specified cables at appendix. More tooling information can be obtained through a local TE Representative, or calling the product information Center after purchase.

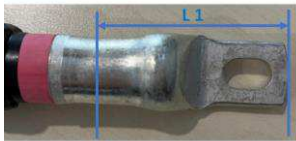
应用工装仅对附录中的指定电缆有效。可通过当地TE代表获取更多工装信息，或者在购买后，拨打产品信息中心电话。

4.1 Ring tongue application tools 端子应用工装

The following table contains the required order numbers for application tools.

下表包含所需应用工装的订货号。

PSTproducts GmbH Blue wave industrial system PS48-16 with coil Ø 90mm Parameter Guideline for EMPT IPT HD 120mm² & 150mm²			
Interface		Contact	
Cable Size		120mm ²	150mm ²
Cable Type		H+S (85 010 929) High flexible cable	H+S (85 163 659) High flexible cable
Field former assembling (need extra insulation)		FF: 801367 Holder: 801195	FF: 801370 Holder: 801225

adjustable parameter	Energy (Pulsenergie) [kJ]*	32.4 ¹⁾	32.8 ¹⁾
resulting value	I _{peak+} (max. Strom positive Halbwelle) [kA]	296.7	297.9
tolerance value (must be evaluated)	min [kA]	294.7	294.9
	max [kA]	298.7	298.9
Distance L1: currently specified distance plane for measuring the pressed contact surface (must be evaluated)	mm	52 ³⁾	52 ³⁾
Contact	-	2430382-1	2430382-2
Description	-	IPT HD120 CONTACT (120mm ²)	IPT HD150 CONTACT (150mm ²)
	1) This value setting was used for TE's own test system (4 capacitors, coil cable length...). For each installation, the suitable energy setting must be found through own tests to get the required discharge current. Depending on the system requirements (number of capacitors, cable length used...), minor deviations may occur.		
	2) the reference value could be the total area [mm²], the circumference [mm] or the radii/diameters [mm] at a defined distance L1; these values still have to be precisely defined by the EMPT validation. 3) Recommended distance L1 for the measuring section (distance to the front edge) must be evaluated (tbd: the measurement could be made without contact via laser, 3d-scanner,  cross-section...)		

	4) min. holding values or until the strands break (destroy the contact or the cable, conductor breaks outside the crimp) 5) no values are available yet	
--	---	--

Table 5: application tools contact crimp

4.2 Shielding crimp 屏蔽压接

The following table contains the required order numbers for application tools.
下表包含所需应用工装的订货号。

Application tools / 应用工装	
2430404-2	Shield crimp tool for 120mm ² ISO H+S high flexible cable
2454741-1	Shield crimp tool for 150mm ² ISO H+S high flexible cable

Table 6: Application tools

5. ASSEMBLY INSTRUCTIONS 组装说明

The following procedures show the details of the cable assembly and insertion instructions of the cable assembly into the plug housing subassembly. The processing is only valid for the specified cable at appendix and only these combinations have been validated by TE. Alternative cables may be used after ensuring performance through validation testing.

下述步骤显示了线缆组件的细节和线缆组件插入母端壳体子组件的插入说明。该制程仅对附录中的指定线缆有效，并且仅这样的组合通过TE验证。在通过验证测试性能之后，可以使用替代电缆。

Below dimensions in the table 6&7 were determined by Min. creepage distance and Min. clearance according to DIN EN 60664-1: Max. altitude of 5500M, pollution degree II, Maximum Voltage 1000VDC, Withstand voltage 4000VDC, If it doesn't satisfy your application, please contact with the responsible TE Connectivity employees. Cable assemble dimension will be adjusted and recommended again.

下面表格6和7中尺寸取决最小爬电距离和电气间隙要求：依照DIN EN 60664-1: 最大海拔高度5500m, 污染等级II, 最大电压1000VDC, 耐电压4000VDC, 如果不能满足你的应用, 请联系TE工作人员重新推荐压接线束的尺寸。

5.1 Overview of main parts should be assembled 主体部件总览图

Component of IPT-HD 1P 120/150mm² review



Figure 1: explosion view

5.2 Shielding Wire assembly process 屏蔽组装制程

Safety alerts, continus or repeated contact with conductor and shielding is not allowed, protective gloves should be worn if necessary.

安全提醒, 请勿长时间或重复与导体或屏蔽接触, 必要时请穿戴防护手套。

Step 1/步骤一 In the order shown in figure 2, slide cover, single wire seal and shield sleeve onto cable sheath, keeping them out of crimping area.

按照图2所示的顺序, 滑动保护盖, 线缆密封圈和屏蔽套管到电缆护套上, 使它们不在压接区域。

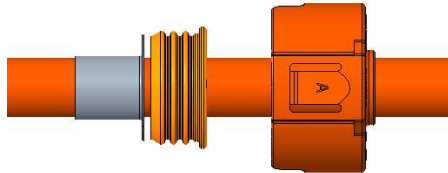


Figure 2: slide components onto cable before processing

Step 2/步骤二 Strip and remove outer sheath, screening braid (if present screening foil), inner sheath and conductor from the end as shown in figure 3.

Stripping dimensions for exposing wire as shown in table 7&8

如图3所示, 切开并去除外绝缘皮, 屏蔽编织物 (如果存在屏蔽箔), 内绝缘皮和导体。

剥线尺寸如表7&8所示

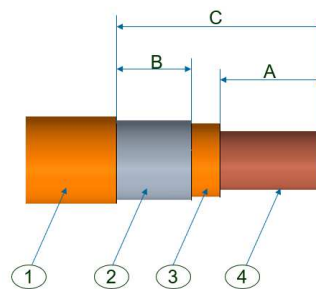


Figure 3: cutting cable to length



Attention: Cable sheath and shielding braid shall not be cut or broken during the cutting procedure.
注意: 切割过程中不得切割或破坏电缆护套和屏蔽编织层。

Voltage 1000VDC and Withstand voltage 4000VDC 1000VDC 120/150mm ² FOR 14mm THICKNESS DIECASTING					
(ID)	Cable Design	A [mm]	B [mm]	C [mm]	C-A [mm]
1	Outer sheath	--	--	52±1	
2	Screening braid	--	(17)	--	
3	Inner sheath	--	--	--	(26)
4	Conductor	26±1	--	--	

Table 7: Cutting dimensions for 120mm²/150mm²

Voltage 1000VDC and Withstand voltage 4000VDC 120/150mm ² FOR (14+X)mm THICKNESS DIECASTING					
(ID)	Cable Design	A [mm]	B [mm]	C [mm]	C-A [mm]
1	Outer sheath	--	--	52+X±1	
2	Screening braid	--	(17)	--	
3	Inner sheath	--	--	--	(26+X)
4	Conductor	26±1	--	--	

Table 8: Cutting dimensions for 120mm²/150mm²

Step 3/步骤三 Push shielding sleeve ahead, raising screening braid equally over perimeter, Then turn over screening braid by lateral movement until cover the shield sleeve, then protect the screening braid.
 组装屏蔽内环，沿四周等长的翻起屏蔽编织物，然后再横向翻折屏蔽编织物，覆盖在屏蔽套管上，并加以保护编织物

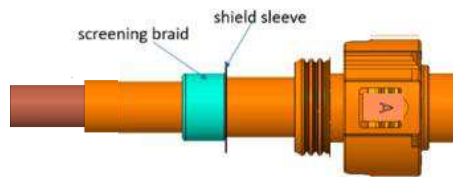


Figure 4: Assemble shield sleeve

Step 4/步骤四 Assemble the ring tongue and crimp it.
 Dimension between the tongue and the outer sheath shall be 0-1mm
 组装并压接端子
 端子与外皮间的距离0-1mm

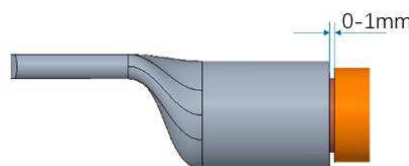


Figure 5: Crimp the ring tongue

Step 5/步骤五 Assemble outer shielding 组装屏蔽外环



Figure 6: Assemble shielding

Step 6/步骤六 Crimp shielding 压接屏蔽环
 As shown in figure 7, adjust the position of shielding according to table 9 then crimp the shielding.
 如图7所示，依据表格9调整屏蔽位置进行压接。

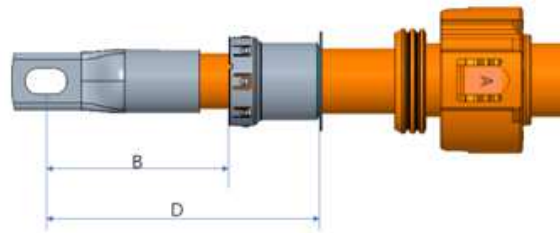


Figure 7: location of shielding

Shielding to Ring tongue Minimum distance for 1000VDC(for 14mm thickness diecasting)		
TYPE	DIM.B(± 1)	DIM.D(± 1)
120 mm ²	64.6	95.9
150 mm ²	64.6	95.9

Shielding to Ring tongue Minimum distance for 1000VDC(for 14+X mm thickness diecasting)		
TYPE	DIM.B(± 1)	DIM.D(± 1)
120 mm ²	64.6+X	95.9+X
150 mm ²	64.6+X	95.9+X

Table 9: shielding to ring tongue distance



It is essential that there are no mistakes in this step because there will be no chance to re-work the parts.
在这一步中没有错误是至关重要的，因为无法重新加工。

The following items at minimum must be inspected and verified, before and after shield crimp process.

- All components are present, and parts are crimped in correct orientation and location
- No visible cracking of the shielding parts and no loose cable shield strands
- Shielding crimp dimensions per to table 9
- Excess length of screening braid must be visible max. 1mm
- Allocation of screening braid should be equal over perimeter

在屏蔽压接前后，必须至少检查并验证以下项目：

- 所有部件完整，部件以正确的方向和位置进行压接
- 屏蔽部件没有明显的开裂，也没有松散的电缆屏蔽线
- 屏蔽压接按照表9
- 屏蔽编织的长度必须可见最大1毫米
- 屏蔽编织应该均匀分配在四周

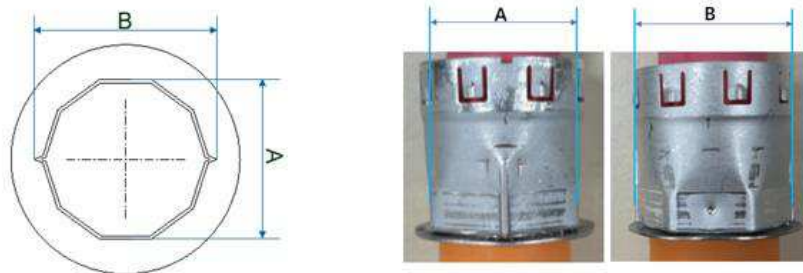


Figure 8: shielding crimp Height and Width

Dimension confirm after crimping			
H+S	120mm ²	24.9±0.1	29.1MAX
H+S	150mm ²	27.5±0.1	31.7MAX
Supplier	Size	DIM.A	DIM.B

Table 10: crimping height of shielding (base on figure 8)

Step 7/步骤7 Cover the gap with heat shrink tube, heat for seal, recommend distance to be 35mm, heat shrink tube refer to TE Part NO. : 5039244037

用热缩套管覆盖间隙，加热密封，推荐长度为35mm，热缩套管参考泰科零件号：5039244037

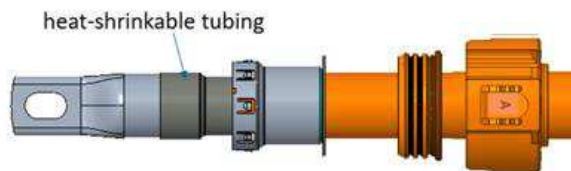


Figure 9: heating seal heat-shrinkable tubing

5.3 Mounting instructions for the IPT-HD 安装说明

Step 1/步骤1 Assemble housing assembly to system with M6 bolts, tightening torque recommended to be 8.0±1Nm.

Note: For applications in more demanding conditions, such as long-term high temperature and humidity, a higher torque of 10±1Nm is recommended.

用M6的螺钉将塑壳装配到系统面板上，安装扭矩推荐为8.0±1Nm

注：针对更严苛的长时间高温、高湿等应用条件，推荐使用更高的扭矩，10±1Nm。

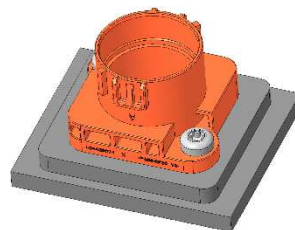


Figure 10: assemble housing assembly

Step 2/步骤2 Plug harness into the housing assembly

将线束插入到塑胶内

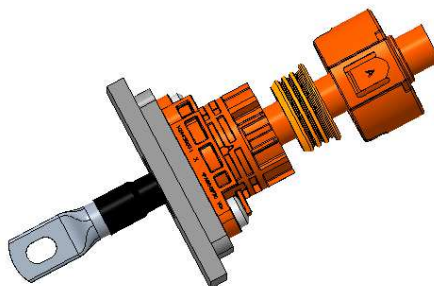


Figure 11: assemble the harness

Step3/步骤3 Push the single wire seal into the housing, and push the cover ahead and lock it on the housing assembly.

将线缆密封圈推进塑胶内，然后推动保护盖并将它锁在塑胶外壳上。

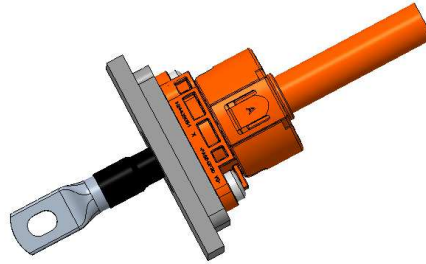


Figure 12: lock housing cover

Attention: There are coding structures on the protection covers, different coding protection cover cannot be used interchangeably.

注意：保护盖上有coding结构，不同coding的保护盖不能交换使用。

Step 4/步骤4 Fix ring tongue and busbar with a bolt of M8, tightening torque recommended to be 15+/-1.5Nm
端子与汇流排都用一颗M8的螺栓连接。推荐扭矩为15+/-1.5Nm

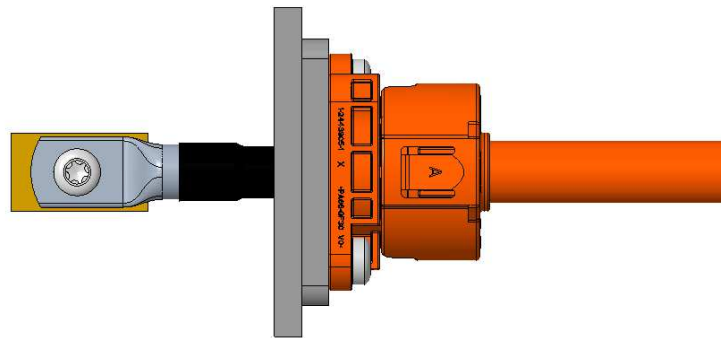


Figure 13: screw the ring tongue to the busbar

5.4 Mounting instructions for the optional accessories & associated parts 可选部件和关联部件 安装说明

Assembling the Plug Transportation Cap: Push the protective cover horizontally into the locking position as shown.
装配Plug运输保护盖：按图示位置水平方向推入保护盖至锁紧位置。

Function: It is designed to protect the shielding ring during the transportation of the wire harness.

用途：在线束运输过程中对屏蔽环进行保护。

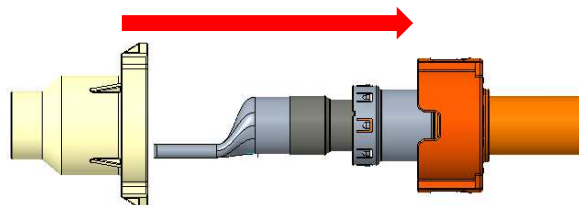


Figure 14: Assembling plug cap

Removing the Plug Cap: Push the locking feature in the direction indicated to unlock the cap, then remove it horizontally.

拆卸plug保护盖：先后按压两边锁扣进行解锁，然后按图示方向水平推出

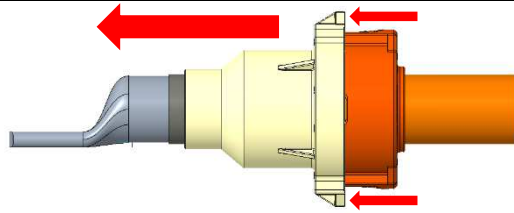


Figure 15: Removing the plug cap

Assembling the header cap: Push the header cap vertical into the locking position as shown

装配header保护盖：按图示位置垂直方向推入保护盖至锁紧位置

Function: Used to temporarily block the header.

用途：用于临时封堵header

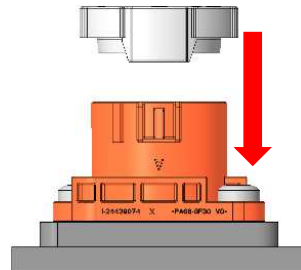


Figure 16: Assembling the header cap

Removing the header cap: Remove the cap vertically as shown

拆卸header保护盖：按图示垂直方向拔除保护盖

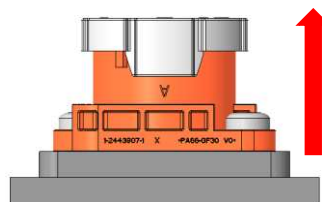


Figure 17: Removing the header cap

5.5 Mounting Dimension illustration 安装尺寸说明

D: Distance between center of Ring tongue and shielding flange 端子中心到屏蔽法兰环距离

E: Distance between center of Ring tongue and diecasting surface 端子中心到应用面板距离

F: Diecasting Minimum thickness requirement 应用界面的最小厚度要求

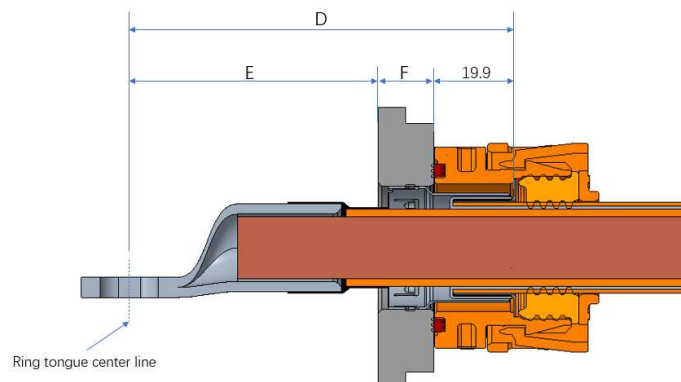


Figure 18: mounting Dimension illustration

WIRE CROSS SECTION	Application 1000VDC (for 14mm thickness diecasting)		
	DIM.D Min	DIM.E	DIM.F Min
120mm ²	95.9	62	14Min
150mm ²	95.9	62	14Min

WIRE CROSS SECTION	Application 1000VDC (for 14+Xmm thickness diecasting)		
	DIM.D Min	DIM.E	DIM.F
120mm ²	95.9+X	62	14+X
150mm ²	95.9+X	62	14+X

Table 11: Mounting Dimension

Note:

1. Dimension E in the table 11 was determined by Min. creepage distance and Min. clearance according to DIN EN 60664-1: Max. altitude of 5500M, pollution degree II, Maximum Voltage 1000VDC, Withstand voltage 4000VDC
表格11中E尺寸取决最小爬电距离和电气间隙要求: 依照DIN EN 60664-1: 最大海拔高度5500m, 污染等级II, 最大电压1000VDC,耐电压4000VDC

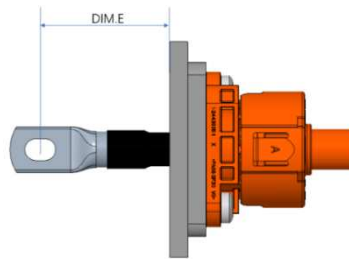


Figure 19: 1000VDC electrical distance requirement

2. DIM. F must meet Minimum thickness requirement: 14mm 尺寸F面板厚度必须满足最小14mm

3. DIM.D determined by DIM.E and DIM.F 尺寸D是由尺寸E和尺寸F决定

For example, under the requirement of Maximum Voltage 1000VDC, withstand voltage 4000VDC and degree of pollution 2, DIM.E must be 62mm Min. for 120/150mm² cable because of the limit of electrical clearance and creepage.

例如, 在最大电压1000VDC, 耐电压4000VDC, 污染等级为2的要求下, 由于爬电距离和电气间隙的限制, 120/150平线缆的尺寸E必须满足最小62mm

DIM E: 62

DIM F: 14

DIM D= E+F+19.9=62+14+19.9=95.9



If Voltage 1000VDC and interface thickness of 14mm cannot meet your application, please contact with the responsible TE Connectivity employees. Cable assemblies dimension will be adjusted and recommended again.

如果最大电压1000VDC和板厚14mm不能满足你的应用,请联系TE工作人员重新推荐压接线束的尺寸。

5.6 Dismounting instructions for the IPT-HD 产品拆卸说明

Step 1/步骤1 Dismount Ring tongue and busbar with special tool

用专用工具将端子和busbar铜排连接拆卸

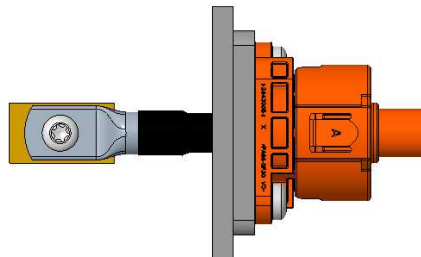


Figure 20: remove protective cover

- Step 2/步骤2 Dismount the M6 bolts then remove the whole assembly
拧下M6螺栓后将整个组件移除

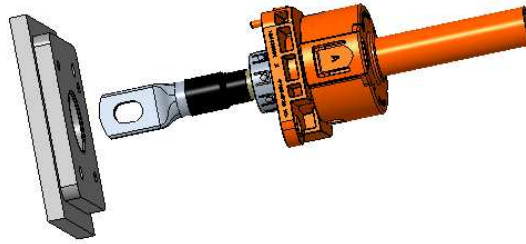


Figure 21: dismount Ring tongue

6. FINAL EXAMINATION 终检

6.1 Visual Examination 外观检查

After processing the connector assembly has to be checked of completeness, correctness acc. customer drawings and free of damage.

在装配连接器后，必须根据客户图纸进行完整性、正确性检查，且不能损坏。

6.2 Electrical Tests 电气测试

Electrical characteristic values according product specification TE-108-160915 / chapter 3.4 are ensured by applicator. The test parameter should be not exceeding the values shown in point 3.4.

使用方依据产品规范TE-108-160915第3.4章保证电气特性。测试参数不应超出规范3.4章的值。

6.2.1 On-line electrical test 在线测试

Apply 4000VDC to the online samples for 3s REF , record the leakage current. Leakage current ≤ 10 mA.

施加4000VDC 参考时间3s，测试在线样品，记录电流泄漏量不超过10mA

7. APPENDIX 附录

7.1 ISO HUBER SUHNER 120/150 mm²



**Automotive cable, single-core, screened, high flexible acc. to ISO 19642-9
RADOX 155 / RADOX Elastomer S (FHLR4GC13X)**

Cross-section Nominal mm ²	Conductor				Cable				
	Number of individual wires Guide value	Diameter of individual wires max. mm	Diameter max. mm	Resistance at 20 °C max. Ω /km	Diameter of Insulation nom. mm	Diameter of Screen max. mm	Overall-Diameter Nominal mm	Z _T at 30 MHz Nominal m Ω /m	H + S Part No.
16	490	0.21	5.4	1.16	6.85	8.0	9.3 $\pm$ 0.3	60	85 026 239
25	760	0.21	7.1	0.743	8.35	9.5	11.0 $\pm$ 0.3	50	85 128 293
35	1064	0.21	8.2	0.527	9.90	11.2	12.9 $\pm$ 0.3	40	85 128 292
50	1520	0.21	9.9	0.368	11.70	13.0	14.9 $\pm$ 0.3	30	85 128 294
70	2146	0.21	11.6	0.259	14.00	15.2	17.0 $\pm$ 0.4	30	85 010 927
95	2849	0.21	13.3	0.196	16.20	17.7	19.5 $\pm$ 0.4	20	85 010 928
120	3538	0.21	15.3	0.153	19.10	20.7	22.6 $\pm$ 0.4	20	85 010 929
150	2960	0.26	17.2	0.121	21.10	22.6	25.0 $\pm$ 0.5	20	85 163 659

Figure 22: ISO HUBER SUHNER



Application
Specification

114-160560
Rev B

REV.	DESCRIPTION CHANGE	RESPONSIBLE	DATE
A	Initial Released	C.Z	20MAR2024
B	1、 Add the info. of transportation cap and PA10T housing; 2、 Add mounting torque for high demanding application; 3、 Adjust the crimping height of shielding 120mm ² 4、 Optimize the shielding process	H.W	28OCT2024