

# SurgeShield Connector SSC\_N230



## Installation instruction

### 1. Product description

This SurgeShield Connector (SSC) is a gas discharged tube (GDT) surge protective device which is designed to protect information and communication systems from surge voltage caused by lightning. The SSC will be supplied with an inserted GDT.

### 2. Technical Data

Type	SSC_N230/xx
Impedance	50 Ohms
Connectors	N
Frequency range	DC to 3 GHz
GDT	230 V
RF power	≤ 140 W CW at 25°C
Continuous operation voltage U <sub>c</sub>	≤ 170 V DC
Nominal discharge current I <sub>n</sub>	20 kA (8/20 μs)
Protection voltage level U <sub>p</sub> at I <sub>n</sub>	≤ 700 V
Earthing	via trough hole Ø 19.3 mm on a metallic plate or via cable lug and ground wire
Degree of protection	IP68 in mated condition
Operating temperature range	-40°C to 85°C

(specifications designed and guaranteed)

### 3. Safety Instructions

The SurgeShield Connector must be installed by a trained person in accordance with the national installation and safety rules. Its use is only permitted under conditions shown in this instruction.

Disconnect or switch off in-line equipment when installing and connecting SSC. This applies also for the exchange of gas discharge tubes (GDT). Leave such activities undone during thunderstorms.

### 4. Earthing

In order to enable a proper functioning of the SSC, it must be grounded. This can be achieved by inserting the bulkhead into a grounded metal panel or by means of a separate grounding cable connected via a cable lug. Keep the grounding wire as short as possible.

### 5. Maintenance

The SSC is maintenance-free provided that it is properly installed, grounded and operated in accordance to its specifications.

# SurgeShield Connector SSC\_N230



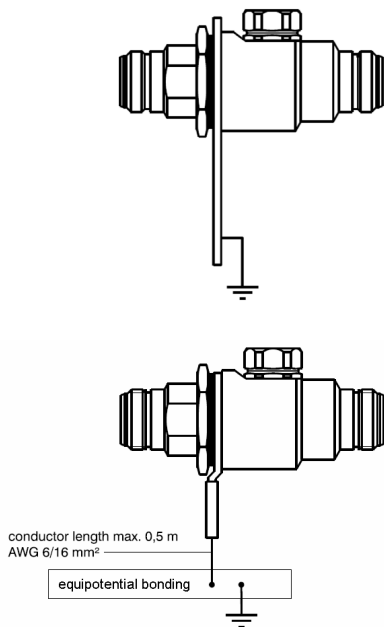
## 6. General Information

Be aware that only a proper lightning protection system according to IEC 62305 can protect your equipment and people against the impact of lightning. An effective surge protection can only be achieved if in addition to the sensitive coaxial lines also all other metal connections and lines are properly bonded to ground.

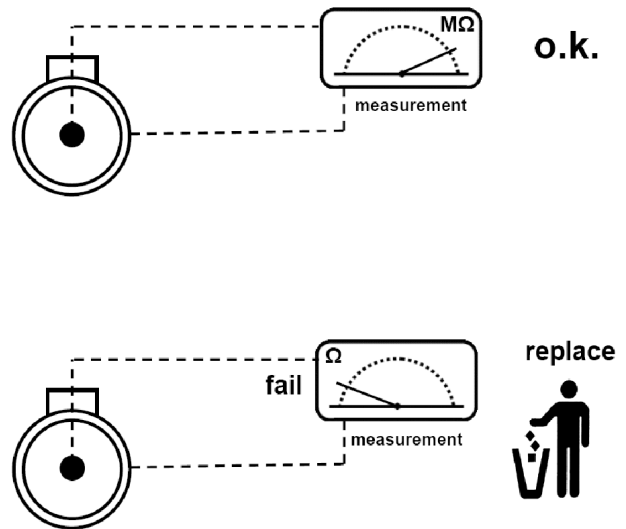
The SSC and the equipment connected to it may be destroyed by EM interference exceeding the given specification, e.g. due to a direct lightning strike.

If exposed to extreme environmental conditions the protector should be covered with a self-vulcanizing tape or a cold shrinking tube.

### Earthing / grounding



### Function test



### Conformity with EU Directive 2002/95/EC (RoHS)

The HUBER+SUHNER companies aim to comply with all relevant legal requirements at all time. This also holds true for the EU Directive 2002/95/EC "on the restriction of the use of certain hazardous substances in electrical and electronic equipment" (RoHS). We are proud to state that we are able to supply components fully compliant with the RoHS for electrical and electronic equipment.



Part Name 部件名称	Toxic or hazardous Substances and Elements / 有毒有害物原或元素					
	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr VI) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE except decabromodiphenyl oxide) 多溴二苯醚 (不包括十溴二苯醚)
Metal & Metallic parts 金属和金属成分	X	o	o	o	o	o
Plastics & Polymers 塑胶和聚合物	o	o	o	o	o	o

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.  
 X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.  
 (Enterprises may further provide in this box technical explanation for marking "X" based on their actual conditions.)  
 o: 表示该有毒有害物在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。  
 X: 表示该有毒有害物至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。(企业可在此处, 根据实际情况对上表中打"X"的技术原因进行进一步说明。)