



Certificate of Compliance

No. 0P240710.EEQ050

Test Report / Technical Construction File no. TLJS24070559786

Certificate's
Holder:

EASCO ELECTRICAL (JIANG SU) CO,LTD.
No.88 ChaoYang Road, HuiPing Town, Qidong City, JiangSu
Province

Certification
ECM Mark:



Product:
Model(s):

Wiring Ducts
GAR, GR, EHF, UHF, SDRHF, GARZ, VDCR, GQR, ED, SRD,
EAR, WDCR, SDR, PXC, LDCR, GDR, GER, SCR, TF, DIT,
DPT, ELH, LS

Verification to:

Standard:
BS EN 50085-2-3:2010

related to GBR Regulation:
Electrical Equipment (Safety) Regulations 2016

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Technical Construction File BS EN 50085-2-3:2010 Cable trunking systems and cable ducting systems for electrical installations Part 2-3: Particular requirements for slotted cable trunking systems intended for installation in cabinets	
Report reference No.....:	TLJS24070559786
Reviewing laboratory.....:	Shanghai Global Testing Services Co., Ltd.
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Manufacturer.....:	EASCO ELECTRICAL (JIANG SU) CO,LTD.
Address.....:	No.88 ChaoYang Road, HuiPing Town, Qidong City, JiangSu Province
Factory.....:	Same as manufacturer
Address.....:	Same as manufacturer
Standard.....:	BS EN 50085-2-3:2010
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Complied by




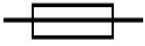
 Linda Wang
 Project Engineer

Approved by



 Joseph Kai
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BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
7	Marking and documentation		-
7.1	Each system component shall be marked with		-
	- the manufacturer's or responsible vendor's name or trade mark or identification mark,	EASCO ELECTRICAL (JIANG SU) CO,LTD.	P
	- a product identification mark, which may be, for example, a catalogue number, a symbol or the like.		P
	When system components other than trunking length, ducting length and apparatus mounting device are supplied in a package, it is sufficient to mark the product identification on the smallest supplied package, the manufacturer's or responsible vendor's name or trade mark or identification mark being marked on the product.		P
	When it is not possible to have a legible marking on small components, due to the small size of the item, it is sufficient to place these markings on the smallest supplied package.		
	Terminals for protective earth shall be marked according to 7.4. This marking shall not be placed on screws or any other easily removable part.		
	NOTE The necessity to mark on the product, the flame propagating characteristic, is under consideration.		
	Compliance is checked by inspection using one sample.		
7.2	Marking shall be durable and easily legible.		P
	Compliance is checked by inspection and for marking on the product, in addition, by rubbing the marking by hand for 15 s with a piece of cotton cloth soaked with water and again for 15 s with a piece of cotton cloth soaked with petroleum spirit.		P
	NOTE 1 Petroleum spirit is defined as the aliphatic solvent hexane with a content of aromatics of maximum 0,1 % volume, a kauri-butanol value of 29, initial boiling point of 65 °C, a dry point of 69 °C and a specific gravity of approximately 0,68 kg/l.		P
	NOTE 2 Marking may be applied, for example, by moulding, pressing, engraving, printing, adhesive labels, or water slide transfers.		P
	NOTE 3 Marking made by moulding, pressing or engraving		P

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Clause	Requirement - Review	Result - Remark	Verdict
	is not subjected to the rubbing Review.		
	After the rubbing Review, the marking shall be legible.		P
7.3	The manufacturer shall provide in his documentation all information necessary for the proper and safe installation and use.		P
	It shall include		P
	- components of the system,		P
	- function of the system components and their assemblies,		P
	- classification of the system in accordance with Clause 6,		P
	- linear impedance, in Ω/m , of trunking length or ducting length of system declared according to 6.5.1,		P
	- rated voltage of CTS/CDS declared according to 6.6.2,		P
	- usable cross sectional area, in mm ² , for cables of the CTS/CDS,		P
	NOTE Certain system components when mounted can reduce the usable cross sectional area for cables.		P
	- instructions to reach the declared classification and functions of the system.		P
	These instructions shall include the recommended installation positioning for the CTS/CDS to ensure that the declared IP classification is maintained after installation.		P
	Compliance is checked by inspection.		P
7.4	If symbols are used they shall comply with IEC 60417 database such as:		N
	Amperes A		N
	Volts V		N
	Frequency Hz		N
	Alternating current ~ or ac		N
	Line L or L1, L2, L3 etc in case of more than one		N
	Neutral N		N
	Protective earth 		N
	Fuse 		N
	Degree of protection IPXX (see EN 60529)		N
	For the marking of rated current and rated voltage the figures may be used alone.		N

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Clause	Requirement - Review	Result - Remark	Verdict
	These figures may be placed on one line separated by an oblique line or the figures for rated current may be placed above the figures for rated voltage, separated by a horizontal line.		N
	The marking for the nature of supply shall be placed next to the marking for rated current and rated voltage		P
	The marking for current, voltage and nature of supply may be, for example, as follows:		P
	16 A 440 V ~ or 16/440 ~ or 16 / 440 ~		P
8	Dimensions		-
	Dimensions shall comply with the requirements of the relevant Part 2.		P
8.101	Preferred solution for fixing holes, if any, in the base of the slotted trunking lengths according to the different trunking widths as shown in Figure 101 is as follows: (BS EN 50085-2-3:2010)		
	- trunking lengths with a nominal width less or equal to 12,5 mm should preferably have one row of small holes only, as shown in Figure 102 b); (BS EN 50085-2-3:2010)		
	- trunking lengths with a nominal width greater than 12,5 mm and less or equal to 62,5 mm, should preferably have one row of holes only, alternately as shown in Figure 102 a) and in Figure 102 b); (BS EN 50085-2-3:2010)		
	- trunking lengths with a nominal width greater than 62,5 mm should preferably have two or more rows of holes alternately as shown in Figure 102 a) and in Figure 102 b), positioned at a distance of 25 mm or 50 mm apart, symmetrically located from the trunking centre line. (BS EN 50085-2-3:2010)		
9	Construction		-
9.1	Sharp edges		-
	Any surface or edge shall not damage the insulated conductors or cables.		P
	Compliance is checked by inspection, if necessary after cutting the samples apart.		-

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Clause	Requirement - Review	Result - Remark	Verdict
	Screws, studs or other securing devices provided shall be fitted so as not to damage the insulated conductors or cables.		-
	This operating device may, for example, consist of specific keys and switches for specific functions.		P
	Compliance is checked by inspection.		P
9.2	Apparatus mounting		N
	If the CTS/CDS is provided with means for the mounting of apparatus, these means shall adequately secure this apparatus.		N
	Compliance is checked by the Review of 10.5.		N
9.3	Means for protective separation and/or retention		P
	If the CTS/CDS is provided with means for the protective separation and/or retention, these means shall have adequate mechanical performance to fulfil their function.		P
	Compliance is checked by the Reviews of 10.2.		P
9.4	Mechanical connections		P
	Screwed connections and other mechanical connections shall withstand the mechanical stresses during installation and normal use.		P
	Screws shall be one or more of the following:		P
	a) ISO-metric threads,		P
	b) thread forming type,		P
	c) thread cutting type if suitable design provisions are made;		P
	d) threads other than a) to c) as specified by the manufacturer.		P
	Mechanical connections of CTS used to allow the laying in of insulated conductors or cables or relocation of an apparatus shall be intended for re-use.		P
	Compliance is checked by the Reviews of 9.4.1, 9.4.2 and 9.4.3 respectively.		P
9.4.1	Screws intended for re-use shall not be tightened by sudden or jerky motions.		P
	To Review the screw it shall be tightened and removed:		P
	– 10 times for metal screws in engagement with a thread of non-metallic material and for screws of non-metallic material or		P

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Clause	Requirement - Review	Result - Remark	Verdict
	– 5 times in all other cases.		P
	The Review is carried out using a suitable screwdriver or spanner to apply a torque, as specified by the manufacturer. In case the manufacturer does not specify the torque, the values of Table 4 apply.		P
	After the Review there shall be no damage that will impair the further use of the screwed connection.		P
9.4.2	Mechanical connections intended for re-use other than screwed connections, shall be fitted and removed 10 times.		P
	After the Review there shall be no damage to impair the further use of the mechanical connection.		P
9.4.3	Mechanical connections not intended for re-use are checked by inspection.		P
9.5	Accessible conductive parts		P
	Accessible conductive parts of CTS/CDS shall comply with 9.5.1 unless they comply with 9.5.2.		P
9.5.1	Accessible conductive parts of CTS/CDS installed according to the manufacturer's instructions, which are likely to become live in the event of an insulation fault, shall have the provision for reliable connection to earth.		P
	If precautions are taken in order to prevent creepage distances and clearances from becoming less than 3 mm, even if a conductor should become loose from its terminal, the accessible conductive part is not considered likely to become live.		P
	Protection against electric shock in case of a fault may be omitted for accessible conductive parts which, owing to their reduced dimensions (up to approximately 50 mm x 50 mm) or their disposition, cannot be gripped or come into significant contact with a part of the human body and provided that connection with a protective conductor could only be made with difficulty or would be unreliable.		P
	NOTE This requirement applies, for example, to bolts, rivets, nameplates and cable clips.		P
	Compliance is checked by inspection, measurement and if necessary by the appropriate Review of 11.1.2 or 11.2. Before the Review the samples are subjected to conditioning according to 11.1.1 respectively 11.2.2.		P
9.5.2	Accessible conductive parts need not have provision for connection to earth if they are insulated from live parts with		P

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Clause	Requirement - Review	Result - Remark	Verdict
	supplementary or reinforced insulation used to form barriers or linings which shall be designed in such a way that:		
	– they cannot be removed without being permanently damaged or,		P
	– they cannot be replaced in an incorrect position or,		P
	– if omitted, the system is rendered inoperable or manifestly incomplete.		P
	Compliance is checked by inspection.		P
	NOTE For particular applications, it may be necessary to equipotentially bond these parts or to connect these parts to the earthing conductor, for functional purposes such as EMC.		P
9.6	Equipotential bonding		P
9.6.1	The manufacturer shall declare if the CTS/CDS can be used for equipotential bonding.		P
9.6.2	If there is a provision for bonding, compliance is checked by the Reviews of 11.1.2. Before the Review the sample is subjected to conditioning of 11.1.1.		P
9.7	Access to live parts		P
9.7.1	CTS/CDS shall be so designed that when they are installed and fitted with apparatus and/or other electrical equipment as in normal use, live parts are not accessible.		P
	Compliance is checked by inspection and, if necessary, by the Reviews of 9.7.2, 9.7.3 and 9.7.4 on the sample installed and fitted with apparatus and/or other electrical equipment as in normal use.		P
	The Reviews are carried out after all parts removable without tools are removed.		P
9.7.3	Non-		P
9.7.2	The Review probe B of EN 61032:1998 is applied in every possible position, an electrical indicator with a voltage not less than 40 V and not more than 50 V being used to show contact with the relevant part.		P
	metallic system components and composite system components are subjected to the following additional Review, which is carried out at the temperature declared according to Table 3.		P
	The sample is subjected for 1 min to a force of 50 N applied		P

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Clause	Requirement - Review	Result - Remark	Verdict
	through the tip of Review probe 11 of EN 61032:1998.		
	This Review probe 11 with an electrical indicator as described in 9.7.2 is applied to all places where yielding of insulating material could impair the safety of the system but is not to be applied to knockouts, membranes and the like.		P
	During this Review system components and their associated fixing devices shall not deform to such an extent that live parts can be touched with the Review probe 11.		P
9.7.4	Knockouts are subjected for 1 min to a force of 10 N applied through the tip of Review probe 11 of EN 61032:1998.		P
	During this Review, knockouts shall not break.		P
9.8	Inlet openings		P
	Inlet openings, if any, shall allow the introduction of conduits and/or the like, or the protective covering of the cable at least 1 mm into the system component, in order to maintain the mechanical protection.		P
	Inlet openings for conduits shall be capable of accepting conduit sizes according to EN 60423:1994.		P
	Compliance is checked by inspection and measurement.		P
9.9	Membranes		P
9.9.1	Membranes and the like which prevent access to live parts shall withstand the mechanical stresses occurring in normal use.		P
	The manufacturer shall declare the dimensions of the cables which may be installed in the entry membranes.		P
	Compliance is checked by the Review of 9.9.2.		P
9.9.2	Membranes are Reviewed when assembled in the system.		P
	The sample is placed for 2 h in a heating cabinet the temperature being maintained at the value declared according to Table 3.		P
	Immediately after this period a force of 30 N is applied for 5 s to various regions of the membrane through the tip of Review probe 11 of EN 61032:1998.		P
	For membranes likely to be subjected to an axial pull force in normal use, an axial pull force of 30 N is applied for 5 s.		P
	During this Review, the membranes shall not deform to such an extent that live parts become accessible and the membranes shall not become detached.		P

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Clause	Requirement - Review	Result - Remark	Verdict
9.9.3	Entry membranes shall allow the introduction of cables into the system at the minimum installation temperature declared according to Table 2.		P
	Compliance is checked by the Review of 9.9.4.		P
9.9.4	The system component shall be fitted with entry membranes which have not been subjected to any ageing treatment, those without openings being suitably pierced.		P
	The sample is then kept for 2 h in a refrigerator at the temperature declared according to Table 2.		P
	After this period the sample is removed from the refrigerator, and immediately afterwards, while the sample is still cold, it shall be possible to introduce through the entry membranes without undue force, cables having the largest outside dimension as declared.		P
9.9.5	After the Reviews of 9.9.2 and 9.9.4, the membranes shall show no cracks or similar damages visible to normal or corrected vision without magnification that are likely to impair safety.		P
9.10	Cable restrainer		P
	Cable restrainers, if any, shall relieve conductors from strain in terminals or terminations by resisting the pull force on cable or insulated conductors.		P
	It shall be clear or indicated in the manufacturer's instructions how the relief from strain is intended to be effected.		P
	Cable restrainers shall		P
	be suitable for the different types of cable and the different types and number of insulated conductors according to the manufacturer's instructions,		P
	be such that at least part of it is integral with or permanently fixed to a system component,		P
	not use makeshift method such as tying cable or insulated conductor in a knot or tying the ends with string,		P
	not impair electrical safety.		P
	Compliance is checked by inspection and by the following Review.		P
	The cable restrainer is fitted with a cable of the smallest outside dimension or with insulated conductors of the smallest outside dimension for which it is intended.		P

BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
	The screws, if any, are tightened with a torque as specified by the manufacturer.		P
	Where the manufacturer does not specify the torque the values of Table 4 apply.		P
	An axial pull force of $20\text{ N} \pm 1\text{ N}$ is applied for $60\text{ s} \pm 5\text{ s}$ to the cable or to each insulated conductor.		P
	The Review is then repeated with the cable restrainer fitted with a cable of the largest outside dimension or with insulated conductors of the largest outside dimension for which it is intended.		P
	After any of the Reviews:		P
	the longitudinal displacement of the cable or any insulated conductor in the restrainer shall not be more than 2 mm and		P
	electrical safety shall not be impaired.		P
9.11	Internal protective partition		P
	Under consideration.		P
9.12	Cable anchorage		P
	Cable anchorage, if any, shall relieve conductors from strain in terminals or terminations by resisting the pull and twist forces on cable.		P
	It shall be clear or indicated in the manufacturer's instructions how the relief from strain is intended to be effected.		P
	Cable anchorage shall:		P
	be suitable for the different types of cable according to the manufacturer's instructions;		P
	be such that at least part of it is integral with or permanently fixed to a system component;		P
	not use makeshift method such as tying cable in a knot or tying the ends with string;		P
	not impair electrical safety;		P
	Compliance is checked by inspection and by the following Review.		P
	The effectiveness of the cable anchorage is checked by means of apparatus as shown in Figure 8 and Figure 9.		P
	The cable anchorage is fitted with a cable of the smallest outside dimension for which it is intended. The screws, if any, are tightened with a torque as specified by the		P

BS EN 50085-2-3:2010				
Clause	Requirement - Review		Result - Remark	Verdict
	manufacturer.			
	Where the manufacturer does not specify the torque the values of Table 4 apply.			P
	The cable is then subjected 50 times for 1 s to a pull force as specified in Table 5 and immediately afterwards the cable is subjected to a torque not less than the relevant value specified in Table 5 for 15 s ± 1 s applied as near as practicable to the cable entry.			P
	Table 5 – Forces and torques to be applied to cable anchorage			-
	Minimum outside dimension of cable	Force	Torque	-
	mm	N	Nm	-
	Up to and including 5	40 ± 2	0,05	-
	Up to and including 8	50 ± 2	0,10	-
	Up to and including 11	60 ± 2	0,15	-
	Up to and including 16	80 ± 2	0,35	-
	Above 16	100 ± 2	0,42	
	The Review is then repeated with the cable anchorage fitted with a cable of the largest outside dimension for which it is intended.			P
	After any of the Reviews:			P
	the longitudinal displacement of the cable in the cable anchorage shall not be more than 2 mm and			P
	the cable shall not have turned in the cable anchorage more than 2 revolutions and			P
	electrical safety shall not be impaired.			P
10	Mechanical properties			P
10.1	Mechanical strength			P
	CTS/CDS shall have adequate mechanical strength.			P
	Compliance is checked by the Reviews of 10.2 to 10.5.			P
10.2	Cable support Review			P
	The Review is described in the appropriate Part 2.			P
10.2.1	General Review conditions (BS EN 50085-2-3:2010)			

BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
	Each Review is made on one new sample of slotted trunking length having a length of (250 ± 5) mm. (BS EN 50085-2-3:2010)		
	Before the Review non metallic and composite slotted trunking lengths are aged at a temperature declared according to Table 3 for (168 ± 4) h continuously. (BS EN 50085-2-3:2010)		
	The sample is securely fixed, using 10 mm external diameter flat metallic washers and appropriate metallic screws to a rigid smooth support such as a plywood board 16 mm thick. (BS EN 50085-2-3:2010)		
	When 10 mm external diameter is too large, suitable smaller washer and appropriate screw are used. (BS EN 50085-2-3:2010)		
	Fixing(s) are positioned as shown in Figure 103 at (200 ± 5) mm centres along the length of the sample. (BS EN 50085-2-3:2010)		
	Within the width of the sample: (BS EN 50085-2-3:2010)		
	– for trunking with a width less than 50 mm, one fixing is used as shown in Figure 103 a); (BS EN 50085-2-3:2010)		
	– for trunking with a width equal or greater than 50 mm, two fixings are used as shown in Figure 103 b). (BS EN 50085-2-3:2010)		
	If the manufacturer's instructions require the use of cable retainers or dividers, these are fitted according to the manufacturer's instructions. Cable retainers, if any, are symmetrically fixed along the length. (BS EN 50085-2-3:2010)		
	The sample is subjected to an evenly distributed load of 0,8 g per mm ² of the declared usable area for cables, per metre length. (BS EN 50085-2-3:2010)		
	The load is distributed between the compartments proportionally to the declared usable area. (BS EN 50085-2-3:2010)		
	The load consists of copper insulated conductors or cables complying with class 5, Table 3 of HD 383 S2:1986, or flexible insulated conductors or cables of		

BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
	similar mass per meter. (BS EN 50085-2-3:2010)		
	To allow for settlement of the sample, a pre-load of 10 % of the load is applied and removed after (300 ± 30) s (BS EN 50085-2-3:2010).		
	The measurement apparatus is then calibrated to zero (BS EN 50085-2-3:2010).		
	Insulated conductors or cables of 25 mm ² nominal cross section are placed in the sample so that approximately 50 % of the load is achieved. (BS EN 50085-2-3:2010)		
	Insulated conductors or cables of 2,5 mm ² nominal cross section are placed on top of the larger cables to achieve the total load within a tolerance of ± 5 g. (BS EN 50085-2-3:2010)		
	If the dimensions of the compartment do not permit the accommodation of 25 mm ² insulated conductor or cable, 2,5 mm ² nominal cross section insulated conductors or cables are used. (BS EN 50085-2-3:2010)		
	Non metallic and composite slotted trunking lengths are Reviewed at the maximum application temperature declared by the manufacturer according to Table 3. (BS EN 50085-2-3:2010)		
10.2.2	Slotted trunking lengths are mounted according to Figure 104 a). (BS EN 50085-2-3:2010)		
	After (120 + 5/0) min with the load still applied the vertical deflection F is measured at approximately the middle of the length. (BS EN 50085-2-3:2010)		
	F shall not exceed 10 % of the height H with a maximum of 10 mm (see Figure 104 a)).		
10.2.3	Slotted trunking lengths classified according to 6.101.1 are mounted according to Figure 104 b).		

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Clause	Requirement - Review	Result - Remark	Verdict
	(BS EN 50085-2-3:2010)		
	After (120 + 5/0) min with the load still applied the vertical deflection F is measured at approximately the middle of the length. (BS EN 50085-2-3:2010)		
	F shall not exceed 10 % of the width W with a maximum of 10 mm (see Figure 104 b)). (BS EN 50085-2-3:2010)		
10.3	Impact Review		P
10.3.1	Impact Review for storage and transport		P
10.3.1.1	The Review is carried out on samples of trunking lengths or ducting lengths each 250 mm ± 5 mm long.		P
	Before the Review, non-metallic system components and composite system components are aged at the temperature declared according to Table 3 for 168 h continuously.		P
10.3.1.2	The Review apparatus consists basically of a hammer which falls freely from rest through a vertical height on to an intermediate part placed on the sample held in a horizontal plane.		P
	The following conditions are also complied with:		P
	– the fall of the hammer is along a guideway, for example a tube, with negligible braking, the guideway does not rest on the sample,		P
	— the mass of the hammer is 0,5 kg + 0,005 / 0 kg and the fall height is 100 mm ± 1 mm,		P
	— the intermediate part is made in a steel 20 mm diameter cylinder.		P
	Its lower surface has a 300 mm bending radius and its mass is 100 g ± 5 g.		P
	NOTE An example of Review apparatus is shown in Figure 2.		P
	The samples are placed in a refrigerator at the temperature declared according to Table 1.		P
13.1.3	Slotted cable trunking systems shall either not ignite or if ignited, shall not continue to burn when the source of ignition is removed. (BS EN 50085-2-3:2010)		P
	Non-metallic system component or metallic system		P

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Clause	Requirement - Review	Result - Remark	Verdict
	component coated in paint or any other substance which is likely to affect its resistance to flame propagation is to be considered as a composite system component and Reviewed accordingly. (BS EN 50085-2-3:2010)		
	Compliance is checked as follows:		P
	– for slotted trunking lengths of non-metallic or composite material by the following flame Review; (BS EN 50085-2-3:2010)		P
	– for other system components of non-metallic or composite material by the Review of 13.1.1 at a temperature of 650 °C. (BS EN 50085-2-3:2010)		P
	System components, which have already been Reviewed at 650 °C or 850 °C according to 13.1.1, are not Reviewed again at this temperature. (BS EN 50085-2-3:2010)		P
	The Review is performed according to Clauses 1 to 5, 8, 10, 11 and 13 of EN 60695-11-5:2005 and the following conditions: (BS EN 50085-2-3:2010)		P
	– the Review is carried out on two sets of samples (675 ± 10) mm long. (BS EN 50085-2-3:2010)		P
	If partitions are not integral with the sample, a partition shall be mounted on the slotted trunking length. (BS EN 50085-2-3:2010)		P
	Other parts may be added to the sample at the request of the manufacturer; (BS EN 50085-2-3:2010)		P
	– the slotted trunking length is placed vertically with its lower extremity (100 ± 5) mm above the tissue covered wooden board as shown in Figure 105 in a rectangular metal enclosure with an open face as shown in Figure 4. (BS EN 50085-2-3:2010)		P
	It is securely fixed to a rigid support through the fixing holes, if any, in the base of the slotted trunking length, according to the manufacturer's instructions; (BS EN 50085-2-3:2010)		P

BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
	– the burner is positioned on the samples of the first set in such a way that the axis forms an angle of $45^\circ \pm 2^\circ$ with the horizontal one and the flame is applied centrally to the boundary of an opening of the wall approximately 200 mm above the wrapping tissue covered wooden board, the end of the burner tube being distanced (5 ± 1) mm from the sample; (BS EN 50085-2-3:2010)		P
	– the Review is repeated on the samples of the second set but with the burner applied to one extremity of the cover preferably on the edge with the thinnest wall thickness or to the boundary of a slot, if there is any; (BS EN 50085-2-3:2010)		P
	– a severity of 60 s is used. (BS EN 50085-2-3:2010)		P
10.3.1.3	After 2 h, each sample is, in turn, removed from the refrigerator and immediately placed in position in the Review apparatus.		P
	At $12 \text{ s} \pm 2 \text{ s}$ after the removal of the sample from the refrigerator the hammer is allowed to fall so that an impact is applied as far as possible perpendicular to the region likely to be the weakest accessible region.		P
	Compliance with impact applied before 10 s provides also compliance with this Review of the standard.		P
	This Review is not applied to knockouts, membranes and the like, and within 50 mm of each end.		N
10.3.1.3	This Review is not applied to wall fingers, knockouts, membranes and the like, and within 50 mm of each end. (BS EN 50085-2-3:2010)		P
	NOTE Break-out line, if any, is considered as knockout. (BS EN 50085-2-3:2010)		P
10.3.1.4	After the Review the samples shall show no signs of disintegration nor shall there be any cracks or similar damages visible to normal or corrected vision without magnification that are likely to impair safety.		P
	NOTE Any cracks in partitions which are not likely to impair the electrical safety or normal use are ignored. Electrical safety can be impaired by any of the following ways:		P

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Clause	Requirement - Review		Result - Remark	Verdict
	– when the impact creates a sharp edge on a partition which may damage insulated conductors or cables (see 9.1);			P
	– when the impact decreases the protective separation between compartments in such a way that the protective separation becomes ineffective (see 9.11).			P
10.3.1.4	Any cracks in or breaking of wall finger are ignored. (BS EN 50085-2-3:2010)			P
10.3.2	Impact Review for installation and application			P
	The Review is carried out with the impact Review values declared according to Table 6 and at the temperature declared according to Table 2.			P
	Table 6 – Impact Review values			-
	Resistance to impact classification	Equivalent mass kg	Fall height mm ± 1 %	-
	Impact 0,5 J	0,25	200	-
	Impact 1 J	0,25	400	-
	Impact 2 J	0,5	400	-
	Impact 5 J	1,7	300	-
	Impact 20 J	5	400	-
	The Review is described in the appropriate Part 2.			P
	In addition, the manufacturer may declare the CTS/CDS IK code according to EN 50102 following Annex C (normative).			P
10.4	Linear deflection Review			P
	This Review is described in the appropriate Part 2.			P
10.5	External load Review			P
10.5.1	Fixing Review for apparatus mounting of socket outlets			P
	An apparatus-mounting device is fitted on a sample of the relevant system component, in the middle of its length unless otherwise stated in the manufacturer's instructions.			P
	When the relevant system component is a trunking length or a ducting length, the sample is 250 mm ± 5 mm long or 100 mm ± 5 mm longer than the apparatus mounting device, whichever is the greater.			P

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Clause	Requirement - Review	Result - Remark	Verdict
	NOTE Other system components may be included, if necessary, to prevent movements of the apparatus mounting device.		P
	These system components, if any, are the system components used to terminate the trunking length or ducting length.		P
	When there are no such system components, those chosen by the manufacturer are used.		P
	If the results of the Reviews are dependent on the temperature the Reviews are carried out at a temperature of $60\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.		P
	A pull and a press force of 1,5 times the maximum withdrawal force of the plug is applied in turn to the apparatus fixing of the apparatus mounting device for 1 min in the most unfavourable position and direction within an angle of 45° to 90° from the front surface.		P
	The maximum withdrawal force for the plug is taken from the relevant standard		P
	When there is no relevant standard, a maximum withdrawal force of 50 N is used.		P
	After the Review, electrical safety shall not be impaired.		P
	In case of doubt, the Review of 14.1.3 shall be carried out on the assembly to check that the declared degree of protection against access to hazardous parts is maintained.		P
	The declared degree of protection against access to hazardous parts is either the additional letter directly declared by the manufacturer according 6.7.3, if any, or the degree of protection against access to hazardous parts indirectly declared by the manufacturer according to 6.7.1.		P
	Immediately after this Review, the apparatus mounting device is subjected to a torque of $3,0\text{ Nm} \pm 0,2\text{ Nm}$, clockwise and anticlockwise.		P
	The duration of the Review is 1 min in each direction.		P
	During the Review, the apparatus mounting device shall not turn more than an angle of 15° from its initial position and after the Review electrical safety shall not be impaired.		P
10.5. 2	Fixing Review for apparatus mounting other than socket outlets		P
	For other apparatus, only a pull and press force Review is carried out according to the Review of 10.5.1 with a force of		P

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Clause	Requirement - Review	Result - Remark	Verdict
	50 N ± 2 N.		
10.6	System access cover retention		P
	Access cover of system components of systems classified according to 6.9.2 shall not be capable of being opened without a tool.		P
	Compliance is checked by the following Review.		P
	Before the Review, non-metallic system components and composite system components are aged at the temperature declared according to Table 3 for 168 h continuously.		P
	The system component is firmly fixed and the access cover fitted.		P
	Without the use of a tool, all reasonable effort shall be made to open the access cover manually.		P
	NOTE The efforts should simulate those likely to occur during normal use.		P
	After the Review, the access cover shall remain secured.		P
11	Electrical properties		P
11.1	Electrical continuity		P
	CTS/CDS declared according to 6.5.1 shall have adequate conductivity.		P
	NOTE 1 CTS/CDS which are so designed that the requirements of 547.1 and/or 543.1, 543.2 and 543.3 of HD 384.5.54 S1:1988 are complied with, may be used as an equipotential bonding and/or protective conductor.		P
	NOTE 2 Additional requirements for the use of CTS/CDS as a protective conductor are under consideration.		P
	Compliance is checked by the Reviews of 11.1.2 carried out after conditioning according to 11.1.1 on sample arrangements having a minimum length of 1m at middle line, each made of one or two trunking lengths or ducting lengths with the relevant system component, if any.		P
	Where electrical connections include screwed connections, the screwed connections are tightened by applying the torque specified by the manufacturer.		P
	In case the manufacturer does not specify the torque, 2/3 of the values of Table 4 apply.		P
11.1.1	Preparation and conditioning		P
	All grease is removed from the parts to be Reviewed, by		P

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Clause	Requirement - Review	Result - Remark	Verdict
	cleaning with white spirit with a kauri-butanol value of 35 ± 5 .		
	The samples are then immersed for 10 min in a 10 % solution of ammoniumchloride in water at a temperature of $20 \text{ }^\circ\text{C} \pm 5 \text{ }^\circ\text{C}$.		P
	Without drying, but after shaking off any drops, the samples are then placed for 10 min in a box containing air saturated with moisture at a temperature of $20 \text{ }^\circ\text{C} \pm 5 \text{ }^\circ\text{C}$.		P
	The samples shall then be dried for 10 min in a heating cabinet at a temperature of $100 \text{ }^\circ\text{C} \pm 5 \text{ }^\circ\text{C}$ and are left at room temperature for 24 h.		P
11.1.2	Electrical impedance Reviews		P
	A current derived from an a.c. source having a no-load voltage not exceeding 12 V and equal to $25 \text{ A} \pm 1 \text{ A}$ at the nominal frequency 50 Hz is passed through the four sample arrangements of 11.1.2.1 to 11.1.2.4, and the voltage drop is measured:		P
11.1.2.1	Impedance of ducting length or trunking length		P
	The Review is carried out on one or more of the following samples according to the manufacturer's declaration:		P
	– ducting length;		P
	– base of trunking length;		P
	– access cover of trunking length;		P
	– trunking length.		P
	The voltage drop $\otimes V$ is measured between two convenient points as shown in Figure 6a. The impedance Z_1 is calculated using the following formula:		P
	$Z = \Omega V (\Omega/m)$		P
	Z_1 shall not be greater than the declared value.		P
11.1.2.2	Impedance of a joint		P
	The Review is carried out on the following samples:		P
	– two assembled trunking lengths or assembled ducting lengths;		P
	– trunking length or ducting length assembled with a different system component.		P
	The voltage drop ΔV is measured as shown in Figure 6b between two convenient points each on one side of the joint and separated by distance of at least 50 mm from the		P

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Clause	Requirement - Review	Result - Remark	Verdict
	coupling area.		
	The impedance Z2 is calculated using the following formula:		P
	$Z_2 = \frac{\Delta V}{I} - d_2 \times Z_1 \text{ (}\Omega\text{)}$		P
	where Z1 is the impedance of the relevant ducting length or trunking length as calculated in 11.1.2.1;		P
	Z2 shall not be greater than 50 mΩ.		P
11.1.2.3	Impedance of connection between trunking base and access cover		P
	If the manufacturer declares that the system provides appropriate electrical continuity between the base and access cover for good earthing then the following Review is carried out on one of the following samples:		P
	– one access cover having a length equal to the smallest length of access cover allowed by the manufacturer's instruction mounted on a base as long as the access cover but at least 100 mm long;		P
	– system component.		P
	The voltage drop ΔV is measured as shown in Figure 6c between both sides of the connection.		P
	The impedance Z3 is calculated using the following formula:		P
	$Z_3 = \frac{\Delta V}{I} \text{ (}\Omega\text{)}$		P
	Z3 shall not be greater than 50 mΩ.		P
	11.1.2.4 Impedance of the connection of the earthing terminal or termination		P
	The Review is carried out on system components fitted or intended to be fitted with earthing terminal or termination.		P
	The voltage drop ΔV is measured as shown in Figure 6d between the earthing terminal or termination and a point separated by a distance d3 of 10 mm to 20 mm from the edge of the earthing terminal or termination along the line of current flow.		P
	The impedance Z4 is calculated using the following formula:		P
	$Z_4 = \frac{\Delta V}{I} \text{ (}\Omega\text{)}$		P

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Clause	Requirement - Review	Result - Remark	Verdict
	Z4 shall not be greater than 50 mΩ.		P
11.2	Electrical insulation		P
11.2.1	Solid insulation		P
	System components, which form part of the enclosure, of CTS/CDS declared according to 6.6.2 shall be capable of withstanding electrical stress, which is likely to occur.		P
	Internal protective partitions, declared by the manufacturer as providing supplementary insulation, shall be capable of withstanding electrical stress, which is likely to occur.		P
	Compliance is checked by the Reviews according to 11.2.3 and 11.2.4 using the same sample, after conditioning and preparation according to 11.2.2.		P
	For trunking lengths and ducting lengths the samples are 250 mm ± 5 mm long. Other system components are Reviewed as supplied.		P
	Where internal protective partitions are declared by the manufacturer as providing supplementary insulation, the solid insulation is Reviewed in the same way as system components forming part of the enclosure.		P
11.2.2	Conditioning and preparation		P
	The humidity treatment is carried out in a humidity cabinet with a relative humidity between 91 % and 95 % at a temperature t maintained within ± 1 °C of any convenient value between 25 °C and 30°C.		P
	Before being placed in the humidity cabinet, the samples are brought to a temperature between t and t + 4 °C.		P
	This may be achieved by keeping them at this temperature for at least 4 h before the humidity treatment.		P
	The samples are kept in the cabinet for 120 h.		P
	Immediately after conditioning, two conductive foils used as electrodes are applied, one to the outer surface and one to the inner surface of the sample to provide an area of overlap not less than 2 500 mm ² .		P
	When 2 500 mm ² cannot be achieved, the maximum possible area of overlap is used.		P
	NOTE The foils can be smaller than the sample and moved together so as to Review different areas of the sample. It is not necessary to repeat the Review on areas of the sample having the same characteristics.		P

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Clause	Requirement - Review	Result - Remark	Verdict
	The foils are pushed into corners and the like with a maximum force of 10 N so as to provide good contact with the surface, using the Review probe 11 of EN 61032, if necessary after cutting the sample.		P
	A distance of at least 2 mm from edges and openings is maintained in order to prevent short circuit between the electrodes through the air or along the surface of the sample.		P
11.2.3	Insulation resistance Review		P
	The insulation resistance is measured by applying between the electrodes a d.c. voltage of $500\text{ V} \pm 25\text{ V}$. The measurement is made 60 s (+ 10/0) s after the application of the voltage. The insulation resistance shall be not less than 100 M Ω .		P
11.2.4	Dielectric strength Review		P
	Immediately after the Review of 11.2.3, a voltage of $(2 U_n + 1\ 000)\text{ V}$, where U_n is the rated voltage, of substantially sine-wave form and having a nominal frequency of 50 Hz, is then applied between electrodes.		P
	Initially not more than half the voltage is applied and this is raised to the Review voltage as rapidly as possible without transient overvoltage. The voltage is maintained for 5 s (+ 1/0) s.		P
	The high-voltage transformer used for the Review shall be so designed that, when the output terminals are short-circuited after the output voltage has been adjusted to the appropriate Review voltage, the output current is of at least 200 mA.		P
	The overcurrent relay shall not trip when the output current is less than 100 mA.		P
	No flashover or breakdown shall occur during the Review.		P
	NOTE 1 Care should be taken that the r.m.s. value of the Review voltage applied is measured within $\pm 3\%$.		P
	NOTE 2 Glow discharges without a drop in voltage should be disregarded.		P
12	Thermal properties		P
	12.1 Resistance to heat		P
	Non-metallic or composite system components shall have adequate resistance to heat.		P

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Clause	Requirement - Review	Result - Remark	Verdict
	Compliance is checked by Review of 9.7, 9.9, 10.5, 12.2 and 12.3.		P
12.2	Non-metallic or composite system components necessary to retain current-carrying parts in position are subjected to a ball-pressure Review by means of the apparatus shown in Figure 5.		P
	Before the Review is started, the ball and the support on which the sample shall be placed are brought to the temperature specified.		P
	The part under Review shall be placed on a 3 mm thick steel plate in direct contact with it so as to be supported to withstand the Review force.		P
	When it is not possible to carry out the Review on the sample, the Review shall be carried out on a piece of the same material at least 2 mm thick.		P
	The surface of the part to be Reviewed is placed in the horizontal position and a steel ball of 5 mm diameter is pressed against the surface with a force of 20 N.		P
	The Review is carried out in a heating cabinet at a temperature of $125\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$. After 1 h, the ball is removed from the sample which is then cooled down within 10 s to approximately room temperature by immersion in cold water.		P
	The diameter of the impression caused by the ball is measured and shall not exceed 2 mm.		P
12.3	Non-metallic or composite system components not necessary to retain current-carrying parts in position, but in contact with them and non-metallic or composite system components which retain parts of the protective earthing circuit, are subjected to the ball-pressure Review of 12.2 but the Review is carried out at a temperature of $70\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.		P
	NOTE For the purpose of the Reviews according to 12.2 and 12.3, insulated conductors and cables are not considered to be current carrying parts.		P
13	Fire hazard		P
13.1	Reaction to fire		P
13.1.1	Initiation of fire		P
	Non-metallic system components and composite system components which might be exposed to abnormal heat due		P

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Clause	Requirement - Review	Result - Remark	Verdict
	to electrical effects and deterioration of which might impair the safety of the system, shall not initiate fire.		
	Compliance is checked by the following Review.		P
	The glow-wire Review is performed according to Clauses 4 to 10 of EN 60695-2-11 under the following conditions:		P
	– for non-metallic or composite parts of system components necessary to retain current-carrying parts in position, by the Review carried out at a temperature of 850 °C;		P
	– for non-metallic or composite parts of system components not necessary to retain current carrying parts and parts of the earthing circuit in position, but in contact with them, by the Review carried out at a temperature of 650°C.		P
	Small parts, such as washers, are not subjected to the Review of this subclause.		P
	The Reviews are not carried out on parts of ceramic material.		P
	If possible, the sample should be a complete system component.		P
	If the Review cannot be carried out on a complete system component, a suitable part may be cut from it for the purpose of the Review.		P
	The Review is carried out on one sample that is permitted to be Reviewed at more than one point.		P
	In case of doubt, the Review shall be repeated on two further samples.		P
	The Review is carried out by applying the glow-wire once for 30 s ± 1 s.		P
	The sample is regarded as having passed the glow-wire Review		P
	– there is no visible flame and no sustained glowing, or if		P
	– flames or glowing of the sample extinguish within 30 s after the removal of the glow-wire.		P
	There shall be no ignition of the tissue paper or scorching of the board.		P
13.1.2	Contribution to fire		P
	Non metallic system components and composite system components shall not actively contribute to fire.		P
	Compliance is checked by the following Review.		-

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Clause	Requirement - Review	Result - Remark	Verdict
	The glow-wire Review is performed according to Clauses 4 to 10 of EN 60695-2-11 on all parts under the conditions specified in 13.1.1 at a temperature of 650 °C.		P
	Parts, which have already been Reviewed at 650 °C or 850 °C according to 13.1.1, are not Reviewed again at this temperature.		P
	Small parts and parts in ceramic material are not Reviewed.		P
13.1.3	Spread of fire		P
	Non-flame propagating CTS/CDS shall either not ignite or if ignited, shall not continue to burn when the source of ignition is removed.		P
	Non-metallic system component or metallic system component coated in paint or any other substance, which is likely to affect its resistance to flame propagation, is to be considered as a composite component and Reviewed accordingly.		P
	Compliance is checked		P
	– for trunking lengths or ducting lengths of non-metallic or composite material by the following Review,		P
	– for other system components of non-metallic or composite material by the Review of 13.1.1 at a temperature of 650 °C.		P
	System components, which have already been Reviewed at 650 °C or 850 °C according to 13.1.1, are not Reviewed again at this temperature.		P
	The Review is carried out with a length of 675 mm ± 10 mm. If partitions are not integral with the sample, a partition shall be mounted on the trunking length or ducting length.		P
	Other parts may be added to the sample at the request of the manufacturer.		P
	The Review is performed using the burner specified in EN 60695-2-4/1.		P
	The sample is placed as shown in Figure 3 in a rectangular metal enclosure with an open front face as shown in Figure 4 in an area substantially free from draughts.		P
	It shall be clamped at both ends, in order to prevent distortion or movement of the sample itself under flame application conditions.		P
	The burner is positioned in such a way that the axis forms		P

BS EN 50085-2-3:2010			
Clause	Requirement - Review	Result - Remark	Verdict
	an angle of $45^\circ \pm 2^\circ$ with the vertical one.		
	The flame is applied to the sample so that the distance from the top of the burner tube to the sample measured along the axis of the burner tube is $100 \text{ mm} \pm 10 \text{ mm}$, and the axis of the flame intersects with the surface of the sample at a point $100 \text{ mm} \pm 5 \text{ mm}$ above the upper extremity of the lower clamp.		P
	The upper extremity of the lower clamp is $500 \text{ mm} \pm 10 \text{ mm}$ above the internal lower surface of the enclosure as shown in Figure 4.		P
	The internal lower surface of the enclosure shall be covered with a piece of soft whitewood board, approximately 10 mm thick, covered with a single layer of wrapping paper.		P
	The sample is subjected to the exposure of the flame for $60 \text{ s} \pm 2 \text{ s}$.		P
	The sample is regarded as having passed the Review if		P
	- it does not ignite, or if		P
	- in the case of ignition, the following three conditions are fulfilled:		P
	1) the flame extinguishes within 30 s after removal of the Review flame;		P
	2) there is no ignition of the wrapping paper or scorching of the board;		P
	3) after wiping of the sample, there is no evidence of burning or charring above 50 mm below the lower extremity of the upper clamp.		P
13.1.4	Additional reaction to fire characteristics		N
	Under consideration.		N
13.2	Resistance to fire		P
	Under consideration.		P
14	External influences		P
14.1	Degree of protection provided by enclosure		P
	CTS/CDS, when assembled and installed according to the manufacturer's instructions, shall provide adequate protection according to the classification declared by the manufacturer with a minimum of IP20.		P
	Compliance is checked by the Reviews of 14.1.1, 14.1.2		P

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Clause	Requirement - Review	Result - Remark	Verdict
	and 14.1.3.		
	The system declared by the manufacturer is Reviewed in the most unfavourable installation positions according to the manufacture's instruction.		P
	Each assembly is made of one or more trunking lengths or ducting lengths of 250 mm ± 5 mm with the relevant system component, if any, to fulfil the various functions of the system.		P
	More than one assembly may be necessary to fulfil the various functions of the system.		P
	Where necessary, the open ends of the assembly are plugged or are not part of the Review.		P
	The following ageing treatment is carried out before the Reviews of 14.1.1, 14.1.2 and 14.1.3.		P
	The assemblies are placed in a heating cabinet for (168 ± 4) h at the maximum application temperature as declared by the manufacturer according to Table 3.		P
	The assemblies are then removed from the cabinet and kept at room temperature for not less than 24 h.		P
	Assemblies designed for opening are opened and closed five times.		P
14.1.1	Protection against ingress of solid foreign objects		P
14.1.1.1	The assembly is Reviewed in accordance with the appropriate Review of EN 60529:1991. For numeral 5, category 2 applies.		P
14.1.1.2	The assembly Reviewed for numeral 5 or 6 passes the Review if there is no ingress of dust visible to normal or corrected vision without magnification.		P
14.1.2	Protection against ingress of water		P
14.1.2.1	The assembly is Reviewed in accordance with the appropriate Review of EN 60529:1991.		P
	For numeral 3 and 4 the oscillating tube according to Figure 4 of EN 60529:1991 is used unless the dimensions of the assembly imply using the spray nozzle according to Figure 5 of EN 60529:1991.		N
14.1.2.2	The assembly Reviewed for numeral 1 and above passes the Review if there is no ingress of water in hazardous quantity.		N
	The quantity in mm ³ is considered as non hazardous when the volume of water which has penetrated the assembly is		N

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Clause	Requirement - Review	Result - Remark	Verdict
	less than:		
	5 x 10 ⁻³ x cross sectional area (mm ²) x [250 (mm) x number of trunking lengths or ducting lengths + the length (mm) along the centre line of the relevant system component if any].		N
	The measurement of the volume of water is made with a syringe after wiping of the exterior of the assembly and careful removal of the access covers, if any.		N
14.1.3	Protection against access to hazardous parts		P
14.1.3.1	The assembly is Reviewed in accordance with the appropriate Review of EN 60529:1991.		P
14.1.3.2	The probe shall not enter the space for the accommodation of circuits.		P
14.2	Protection against corrosive or polluting substances		P
	Under consideration.		P
15	Electromagnetic compatibility		-
	Products covered by this standard are, in normal use, passive in respect of electromagnetic influences (emission and immunity).		P
	NOTE When products covered by this standard are installed as part of a wiring installation, the installation may emit or may be influenced by electromagnetic signals.		P
	The degree of influence will depend on the nature of the installation within its operating environment and the apparatus connected by the wiring.		P

- End of Review Report -

Type of equipment: Wiring Ducts

Details of:

View:

general

front

rear

right

left

top

bottom



- End of Annex I -