







# **TRUNKING SPECIALISTS**

# Who we are

**CANALPLAST** is, since more than 35 years, a specialized company in the production and development of trunking systems for electrical installation. Our effort, the technology of our production and the quality of our products bring our presence in the national markets and make us grow more and more towards the international ones, placing us among the leaders of the sector, with a network of agencies and own promoters that constantly cooperate with the clients and their design dept., and having as partners the distributors of electric material with which we collaborate for the "satisfaction of the end client".



# A strategic structure

CANALPLAST's facilities cover an area of more than 20.000 m2. Using constantly updated technologies, CANALPLAST produces profiles made of high quality materials. These products follow a rigid quality control procedure, from production to packing and storing. CANALPLAST is facilities house the Research and Development department, as well as administrative and production departments. Approximately 1500 stock items are stored in our 7.500 m2 warehouse. A Customer Care department is in charge of coordinating all orders, from placement to final shipment to the customer.





# WE SAFEGUARD YOUR ENERGY

**OLAN** produces and sells electrical installation equipment since 1979, with the objective to meet the installation demands, with a range of solutions, articulated in different series of products for different markets. In the course of the years the offer has been enriched with new products in order to offer the market a full and articulated range.

From its origin, the company has pursued the goal of quality; in recent years it has invested to expand its design and production facilities, with the aim of achieving better product quality and safety, in compliance with existing standards. The product range growth was performed not only by thinking of the internal market, but mainly of the overseas markets. Product reliability is the fruit of a long experience in the field of plastic molding, this made it possible to continuously improve the production standard.

In overseas markets the company is present through importers and agents; now it exports its products to over 50 countries distributed in four continents.

All activities are now incorporated within the structures and services provided by Canalplast, thus making the catalog is a truly unique and comprehensive proposal.

# **SAFETY AND RESISTANCE**

# **Tested value**

Production at Canalplast is constantly supervised and monitored by technical staff from the Quality Control Department, to guarantee full compliance and conformity to the specific legal requirements and to obtain a high quality product with continuous improvements. The company invests resources, incurring in major expenditures, for the researching and testing materials, for equipment, machinery and the development of new products.



Refrigerator to prepare samples for low temperature shock tests.



Apparatus for finger-removal and side-segment removal test.



Cabin for age acceleration test.



Apparatus for testing side walls and lids lowering.



Apparatus for testing heat resistance (850° C) GWT.



Apparatus for shock testing at room temperature.



Apparatus for shock testing at low temperature.



Apparatus for testing heat resistance.



Apparatus for insulation resistance above 100  $M\Omega.$ 



Apparatus for flame propagation resistance test.

# **Certified quality**

For us, quality is not a slogan, but a term that implies strict adherence to creating a product of the highest quality. IMQ, CSA UL and GOST certifications are an evidence of **CANALPLAST**'s quality mission. Since 1991, Canalplast has also received the CSQ, ISO 9001:2008 Certification.



# A service always on line

**CANALPLAST gives prompt answers at any time** regarding any information required. **Experts are available** to clarify all possible doubts, give clear-cut explanations and solve any service-related problem.

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# www.canalplast.com www.olansrl.com

The websites contain **all the most important information**, **the events** at which Canalplast and Olan participate, new promotions and initiatives, besides as well as the product catalogue. A fast and ultra-convenient means of contacting **Canalplast** and **Olan in real time**.







- ► WIRING DUCTS
- ► TRUNKINGS FOR LIFTS
- ► HALOGEN FREE WIRE DUCTS FOR SWITCHBOARDS
- ► ACCESSORIES
- ► DIN RAILS













WIRING DUCTS

RoHS COMPLIANCE

# "E SERIES" WIRE DUCTS WITH 8mm SLOTS - FINGERS 12mm - LENGTH 2m.

# A Norme EN50085-2-3 111

CODE	BOTTOM SECTION	В	н	PACK	PACK	PACK	PALLET	TECHNICAL DAI			
CODE	BOTTOM SECTION	mm	mm	m	m <sup>3</sup>	Kg	m	FIG.	С	D	Р
E16			30	80	0,057	16,0	1600	1	8	12	20
E13			40	60	0,051	15,8	1500	1	8	12	20
E7		25	60	40	0,051	15,0	1000	1	8	12	20
E14			80	32	0,057	15,6	640	2	8	12	20
E34			100	24	0,057	13,8	480	2	8	12	20
E23			30	48	0,051	13,5	1200	1	8	12	20
E8			40	40	0,057	14,2	800	1	8	12	20
E5		40	60	36	0,069	17,8	720	1	8	12	20
E15			80	24	0,057	14,7	480	2	8	12	20
E35			100	16	0,051	14,1	400	2	8	12	20
E24			30	32	0,051	14,4	800	1	8	12	20
E4			40	24	0,051	11,4	600	1	8	12	20
E9		60	60	24	0,069	15,5	480	1	8	12	20
E11			80	24	0,081	18,5	360	2	8	12	20
E18			100	16	0,074	16,9	320	2	8	12	20
E26			40	24	0,069	14,3	480	1	8	12	20
E6			60	24	0,092	19,2	288	1	8	12	20
E12		80	80	24	0,110	21,7	288	2	8	12	20
E36			100	16	0,093	19,8	192	2	8	12	20
E27			40	16	0,057	12,3	320	1	8	12	20
E17	1 1		60	20	0,092	18,7	240	1	8	12	20
E19		100	80	16	0,092	18,1	192	1	8	12	20
E37			100	16	0,114	21,5	192	2	8	12	20
E43			150	8	0,085	14,6	120	3	20	30	50
E28			40	20	0,081	18,2	300	1	8	12	20
E10		100	60	16	0,085	17,5	240	1	8	12	20
E32		120	80	16	0,106	20,5	192	2	8	12	20
E38			100	8	0,071	12,6	120	2	8	12	20
E30			60	12	0,081	17,3	180	1	8	12	20
E33		150	80	12	0,106	18,9	144	2	8	12	20
E39			100	8	0,081	15,1	120	2	8	12	20
E31			60	8	0,071	14,6	120	1	8	12	20
E48		200	80	8	0,092	16,6	96	2	8	12	20
E40			100	8	0,114	18,2	96	2	8	12	20
	WIRE DUCTS WITH BOT	TOM F	AILS -	SUPPLIED UP	ON REQUEST	AND FOR QL	IANTITIES TO	BE AG	REED		
E5 CG		40	60	36	0,069	17,8	720	1	8	12	20
E15 CG		40	80	24	0,057	14,7	480	2	8	12	20
E4 CG			40	24	0,051	11,4	600	1	8	12	20
E9 CG		60	60	24	0,069	15,5	480	1	8	12	20
E11 CG			80	24	0,081	18,5	360	2	8	12	20
E26 CG			40	24	0,069	14,3	480	1	8	12	20
E6 CG		80	60	24	0,092	19,2	288	1	8	12	20
E12 CG			80	24	0,11	21,7	288	2	8	12	20
E17 CG		100	60	20	0,092	18,7	240	1	8	12	20
E19 CG		100	80	16	0,092	18,1	192	1	8	12	20
Colour: Grev B	AL 7030										



#### COVERS



CODE	B mm	
GCOP25	25	
GCOP40	40	
GCOP60	60	
GCOP80	80	
GCOP100	100	
GCOP120	120	
GCOP150	150	
GCOP200	200	

#### TECHNICAL DATA



# SIZES AND LAYOUT OF HOLES ON THE BOTTOM



WIRING DUCTS



"E/4 SERIES" WIRE DUCTS WITH 4mm SLOTS - FINGER 6mm - LENGTH 2m.									
RoHS COMPLIANCE	A Norme EN50085-2-3		С АИ50						

CODE	BOTTOM SECTION	в	н	PACK	PACK	PACK	PALLET	TEC	HNIC	AL C	DATA
OODL	Borrow Scotton	mm	mm	m	m <sup>3</sup>	Kg	m	FIG.	С	D	Р
E20			17	120	0,036	11,3	3600	1	4	6	10
E22	U	15	30	96	0,042	14,1		1	4	6	10
E25			40	72	0,042	14,8	2160	1	4	6	10
E164			30	80	0,057	16	1600	1	4	6	10
E134			40	60	0,051	15,8	1500	1	4	6	10
E74		25	60	40	0,051	15	1000	1	4	6	10
E144			80	32	0,057	15,6	640	2	4	6	10
E344			100	24	0,057	13,8	480	1	4	6	10
E84			40	40	0,057	14,2	800	1	4	6	10
E54	1.1	40	60	36	0,069	17,8	720	1	4	6	10
E154		40	80	24	0,057	14,7	480	2	4	6	10
E354			100	16	0,051	14,1	400	1	4	6	10
E44			40	24	0,051	11,4	600	1	4	6	10
E94	1 1	60	60	24	0,069	15,5	480	1	4	6	10
E114		60	80	24	0,081	18,5	360	2	4	6	10
E184			100	16	0,074	16,9	320	1	4	6	10
E264		80	40	24	0,069	14,3	480	1	4	6	10
E64			60	24	0,092	19,2	288	1	4	6	10
E124			80	24	0,11	21,7	288	2	4	6	10
E364			100	16	0,093	19,8	192	1	4	6	10
E174	1 1		60	20	0,092	18,7	240	1	4	6	10
E194		100	80	16	0,092	18,1	192	2	4	6	10
E374			100	16	0,114	21,5	192	1	4	6	10
E104	1 1	100	60	16	0,085	17,5	240	1	4	6	10
E324		120	80	16	0,106	20,5	192	2	4	6	10
	WIRE DUCTS WITH BOT	TOM R	AILS -	SUPPLIED UP	ON REQUEST	and for Qu	ANTITIES TO	BE AGF	REED		
E54 CG	1.1	40	60	36	0,069	17,8	720	1	4	6	10
E154 CG	<u>LTT</u>	40	80	24	0,057	14,7	480	2	4	6	10
E44 CG			40	24	0,051	11,4	600	1	4	6	10
E94 CG	ليتا	60	60	24	0,069	15,5	480	1	4	6	10
E114 CG			80	24	0,081	18,5	360	2	4	6	10
E264 CG			40	24	0,069	14,3	480	1	4	6	10
E64 CG		80	60	24	0,092	19,2	288	1	4	6	10
E124 CG			80	24	0,11	21,7	288	2	4	6	10
E174 CG		100	60	20	0,092	18,7	240	1	4	6	10
E194 CG		100	80	16	0,092	18,1	192	2	4	6	10
Colour: Grey R/	AL 7030										

## COVERS



CODE	B mm	
GCOP15	15	
GCOP25	25	
GCOP40	40	
GCOP60	60	
GCOP80	80	
GCOP100	100	
GCOP120	120	
GCOP150	150	
GCOP200	200	

#### TECHNICAL DATA



#### SIZES AND LAYOUT OF HOLES ON THE BOTTOM



WIRING DUCTS

# "ED SERIES" WIRE DUCTS WITH 5 mm SLOTS - FINGERS 7,5 mm - LENGTH 2m.



CODE	BOTTOM	В	н	PACK	PACK	PACK	PALLET	TECHNICAL DATA				
CODE	SECTION	mm	mm	m	m³	Kg	m	FIG.	С	D	Ρ	
ED2525			25	84	0,051	16,5	2100	1	5	7,5	12,5	
ED2537	11	05	37,5	64	0,057	15,1	1280	1	5	7,5	12,5	
ED2550	L	25	50	52	0,057	15,3	1040	1	5	7,5	12,5	
ED2575			75	32	0,051	13,1	800	2	5	7,5	12,5	
ED3737			37,5	48	0,057	14,4	960	1	5	7,5	12,5	
ED3750		37,5	50	32	0,051	11,2	800	1	5	7,5	12,5	
ED3775			75	32	0,069	15	640	2	5	7,5	12,5	
ED5050		50	50	24	0,051	10,8	600	1	5	7,5	12,5	
ED5075		50	75	24	0,069	13,4	480	2	5	7,5	12,5	
ED7550	1 1	75	50	24	0,069	13,7	480	1	5	7,5	12,5	
ED7575		/5	75	16	0,069	11,8	320	2	5	7,5	12,5	
ED10050		100	50	16	0,064	12,2	288	1	5	7,5	12,5	
ED10075		100	75	16	0,085	14,1	240	2	5	7,5	12,5	
ED12575		125	75	12	0,085	13,6	180	2	5	7,5	12,5	
Colour: Grev RAL 703	0											

#### "EDGE" CORNER WIRE DUCT FOR ELECTRICAL PANELS WITH 4 mm SLOTS - FINGER 6 mm.



ED110K40	90	90	8	0,036	12,5
ED110K60	110	110	8	0,036	13,1
Colours Croy DAL 700	0				

Colour: Grey RAL 7030



THE "SERIES EDGE" is a CANALPLAST WORLDWIDE PATENT



COVERS		
CODE	B mm	
GCOP25	25	
GCOP37	37,5	
GCOP50	50	
GCOP75	75	
GCOP100	100	
GCOP125	125	

#### TECHNICAL DATA



#### SIZES AND LAYOUT OF HOLES ON THE BOTTOM



# ASSEMBLY AND INSTALLATION INSTRUCTIONS

Advantages of the system.

The Edge wire duct is designed to exploit the corners of the enclosure where the space is normally not utilized. This system allows wires and cables to be routed professionnaly to the lateral panels.

#### Features of the EDGE ducts.

Available with cover opening of 40 and 60 mm (90X90-110x110) and useful sections of 9000 and 11050 mm2. Just changing the "L" shaped bottom piece and keeping the same side wall, you will get a big saving on the ducts and stocking costs, beside getting an increase in wire fill capacity inside the electrical panel. **Installation.** 

Connecting the two slotted walls, 4 mm slots, you have the possibility to use the bottom and side panels for the fixing of instruments and terminals. You can avoid strange applications that, to get the same result, need the fixing of the traditional duct on corner clamps, a solution that restricts the space available for cables.

Fix the corner profile between the panels, with 2-4 rivets (RIV1) or screw per meter (see fig. A). Set the slotted walls under the profile and in the suitable groove. Fix the panel with 2-4 rivets (RIV1) per meter. Fix the cover by pressing. To hold back the wires, use the cross arm TR4-TR6 not supplied.





# TECHNICAL DATA



TRUNKINGS FOR LIFTS



AS	G4	11	60	40	24	0,051	13	1960
AS	G9			60	24	0,069	18	3080
AS	G26		90	40	24	0,069	15,8	2665
AS	G6		80	60	24	0,092	22	4175
AS	G17	1 1	100	60	20	0,092	21	5295
AS	G19			80	16	0,092	21,2	7215
AS	G10		100	60	16	0,085	19,3	6390
AS	G32		120	80	16	0,106	23,1	8710
AS	G33		150	80	12	0,106	21,2	10770

#### SPECIAL LIFT TRUNKINGS WITH PRE-PUNCHED HOLES COLOUR: DARK GREY. LENGTH 2m



## SPECIAL LIFT TRUNKINGS WITH PRE-PUNCHED SLOTS COLOUR: GREY. LENGTH 2m

		EN-5008	5-2-1				
				10 		U	
CODE	BOTTOM SECTION	B mm	H mm	PACK m	PACK m <sup>3</sup>	PACK Kg	S. G. mm
G055P		50	50	24	0,051	12,7	2126
G075P		75	50	24	0,069	16,3	3115
G105P		100	50	16	0,064	14,6	4270



HALOGEN FREE WIRE DUCTS FOR SWITCHBOARDS



<b>"EHF SERIES" HALOGEN FREE WIRE DUCTS</b> WITH 5mm SLOTS - FINGER 7,5 mm - COLOUR: LIGHT GREY - LENGTH 2m.										
	EN-50267-2-1	EN-50085-2-3								

CODE	BOTTOM	в	н	PACK	PACK	PACK	PALLET	TECHNICAL DATA			
CODE	SECTION	mm	mm	m	m³	Kg	m	FIG.	С	D	Р
EHF2525			25	84	0,051	16,5	2100	1	5	7,5	12,5
EHF2537	11	05	37,5	64	0,057	15,1	1280	1	5	7,5	12,5
EHF2550		25	50	52	0,057	15,3	1040	1	5	7,5	12,5
EHF2575			75	32	0,051	13,1	800	2	5	7,5	12,5
EHF3737			37,5	48	0,057	14,4	960	1	5	7,5	12,5
EHF3750		37,5	50	32	0,051	11,2	800	1	5	7,5	12,5
EHF3775			75	32	0,069	15	640	2	5	7,5	12,5
EHF5050	1 1	50	50	24	0,051	10,8	600	1	5	7,5	12,5
EHF5075			75	24	0,069	13,4	480	2	5	7,5	12,5
EHF7550		75	50	24	0,069	13,7	480	1	5	7,5	12,5
EHF7575		75	75	16	0,069	11,8	320	2	5	7,5	12,5
EHF10050	1 1	100	50	16	0,064	12,2	288	1	5	7,5	12,5
EHF10075		100	75	16	0,085	14,1	240	2	5	7,5	12,5
EHF12575		125	75	12	0,085	13,6	180	2	5	7,5	12,5

## COVERS



CODE	B mm	
HFCOP25	25	
HFCOP37	37,5	
HFCOP50	50	
HFCOP75	75	
HFCOP100	100	
HFCOP125	125	

## TECHNICAL DATA





## SIZES AND LAYOUT OF HOLES ON THE BOTTOM





TECHNICAL DATA

								ELECT	RICAL W	/IRES							CON	IMUNICAT	TION
		H	107V-U/R/	κ	8 AWG	10 AWG	12 /	WG		14 AWG		16 A	AWG	18 /	AWG	22 AWG		24 AWG	
	USABLE		mm <sup>2</sup>		.216	.153	.122	.158	.105	.139	.165	.096	.125	.084	.113	.065	.217	.250	.422
B x H mm	SECTION mm <sup>2</sup>	1	1,5	2,5	THHN	THHN	THHN	MTW	THHN	MTW	MTW	TFFN	MTW	TFFN	MTW	мтw	UTP/CM Cat5e	STP/CM Cat6e	UPT/CM
15 x 17	170	16	12	8	4	7	10	7	14	10	6	18	11	24	13	40	4	3	1
15 x 30	320	30	22	15	7	12	20	14	27	18	12	34	20	45	25	75	7	5	2
25 x 30	550	52	38	26	12	21	34	24	46	31	20	59	35	77	43	129	12	9	3
40 x 30	920	87	63	44	20	35	56	40	76	52	33	98	58	129	71	215	19	15	5
60 x 30	1400	132	96	67	31	54	85	60	116	79	51	150	88	197	108	328	29	22	8
15 x 40	450	42	31	22	10	17	27	19	37	26	16	48	28	63	35	105	9	7	2
25 x 40	760	72	52	36	17	29	46	33	63	43	28	81	48	107	59	178	16	12	4
40 x 40	1310	123	90	63	29	50	80	57	109	74	48	140	83	184	101	306	27	21	7
60 x 40	1960	185	134	94	43	75	120	85	163	111	71	210	124	275	152	459	41	31	11
80 x 40	2655	250	182	127	58	102	162	115	220	151	96	284	168	373	205	621	56	42	15
100 x 40	3375	318	231	161	74	130	206	146	280	192	122	361	213	474	261	790	71	53	19
120 x 40	4070	383	279	195	89	156	248	176	338	231	148	435	257	571	315	952	85	64	23
25 x 60	1200	113	82	57	26	46	73	52	100	68	44	128	76	168	93	281	25	19	7
40 x 60	1960	185	134	94	43	75	120	85	163	111	71	210	124	275	152	459	41	31	11
60 x 60	3080	290	211	147	68	118	188	133	256	175	112	330	194	432	238	721	65	49	17
80 x 60	4175	393	286	200	92	161	255	180	347	237	151	447	264	586	323	977	88	66	23
100 x 60	5295	499	363	253	116	204	323	229	440	301	192	566	334	743	409	1239	111	84	29
120 x 60	6390	602	438	306	140	246	390	276	530	363	232	684	403	897	494	1495	134	101	35
150 x 60	8070	760	553	386	177	310	493	349	670	458	293	863	510	1133	624	1888	169	127	45
200 x 60	10820	1019	741	517	237	416	661	467	898	614	393	1158	683	1519	837	2531	227	171	60
25 x 80	1540	145	105	74	34	59	94	67	128	87	56	165	97	216	119	360	32	24	9
40 x 80	2680	253	183	128	59	103	164	116	222	152	97	287	169	376	207	627	56	42	15
60 x 80	4200	396	288	201	92	161	256	181	349	238	152	449	265	590	325	983	88	66	23
80 x 80	5695	537	390	272	125	219	348	246	473	323	207	609	360	800	440	1332	119	90	32
100 x 80	7215	680	494	345	158	277	440	312	599	409	262	772	456	1013	558	1688	151	114	40
120 x 80	8710	821	596	416	191	335	532	376	723	494	316	932	550	1223	674	2038	183	138	48
150 x 80	10770	1015	737	515	236	414	658	465	894	611	391	1152	680	1512	833	2520	226	170	60
200 x 80	14470	1363	991	692	317	556	883	625	1201	821	525	1548	914	2031	1119	3385	304	229	80
25 x 100	2310	218	158	110	51	89	141	100	192	131	84	247	146	324	179	540	48	36	13
40 x 100	3350	316	229	160	73	129	205	145	278	190	122	358	212	470	259	784	70	53	19
60 x 100	5320	501	364	254	117	205	325	230	442	302	193	569	336	747	411	1245	112	84	29
80 x 100	7125	671	488	341	156	274	435	308	591	404	258	762	450	1000	551	1667	149	113	39
100 x 100	9135	861	625	437	200	351	558	395	758	518	331	977	577	1282	706	2137	192	144	51
120 x 100	10820	1019	741	517	237	416	661	467	898	614	393	1158	683	1519	837	2531	227	171	60
150 x 100	13670	1288	936	654	300	526	835	590	1135	776	496	1462	863	1919	1057	3198	287	216	76
200 x 100	18370	1731	1258	878	403	706	1122	794	1525	1043	666	1965	1160	2579	1421	4298	385	290	102
100 x 150	13695	1290	938	655	300	527	836	592	1137	///	497	1465	865	1923	1059	3204	287	216	/6
25 X 25	440	41	30	21	10	1/	27	19	37	25	16	47	28	62	34	103	9	1	2
25 x 37,5	720	68	49	34	16	28	44	31	60	41	26	105	45	101	56	168	15	11	4
25 X 50	985	93	100	47	22	38	01	43	82	50	30	105	62	138	115	230	21	10	5
25 X 75	1400	140	77	7 I 5 A	33	37	91	04 40	123	64 64	04 41	109	94 71	200	07	347	24	23	0
27.5 x 57,5	1560	147	107	75	25	43	09	49	120	04	41 57	167	00	010	101	203	24	10	0
37,5 x 50	2370	147	162	112	52	00	145	102	129	125	37	254	150	219	121	554	50	25	9
50 × 50	2010	107	1/2	100	16	80	129	Q0	172	110	76	204	130	202	162	480	11	33	10
50 x 75	2090	202	220	154	71	124	107	120	267	192	117	2/4	202	452	240	752	68	51	12
75 x 50	3200	302	210	153	70	124	197	138	266	182	116	342	203	4.02	245	749	67	51	18
75 x 75	4930	465	338	236	108	190	301	213	400	280	170	527	311	692	381	1153	103	78	27
100 x 50	5000	471	342	239	110	192	305	216	415	284	181	535	316	702	387	1170	105	79	28
100 x 30	6630	625	454	317	145	255	405	286	550	376	241	709	419	931	513	1551	139	105	37
125 x 75	7115	670	487	340	156	274	434	307	591	404	258	761	449	999	550	1665	149	112	39
90 x 90	8100	763	555	387	178	311	495	350	672	460	294	867	511	1137	626	1895	170	128	45
110 x 110	11020	1038	755	527	242	424	673	476	915	625	400	1179	696	1547	852	2578	231	174	61

CAULINUS



TECHNICAL DATA

#### **BOTTOM RAILS**

	Base	() 40-60-80-100 mm.	<u></u> 120-150 mm.	<u>50 50 50</u> 200 mm.
Sizes and layout of the bottom rails for separators use. The wiring duct is fastened to the wall by TS plugs. 2/4 per meter for the	40			
by 15 plugs, 2/4 per meter for the smaller sizes, 4/8 per meter for the larger sizes.	40 ↓			
	60 80 100	S2 S4 S5 AB ↓20		
	Base	40-60-80-100 mm	120-150 mm	200 mm

#### Use of the S separators. Compartments section in mm<sup>2</sup>

Wiring duct sizes	N° compartments		S	ection		
•		A	B	C	D	E
mm.	\$1	mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>		
60 x 40	3	680	425	680	-	-
80 x 40	3	1030	425	1030	-	-
100 x 40	3	1387	425	1387	-	-
120 x 40	3 - 5	805	425	875		
	S2 / S3 / S4 / S5					
60 x 40	2	1223	737	-	-	-
80 x 40	2	1565	1090	-	-	-
100 x 40	2	1930	1445	-	-	-
120 x 40	3	1387	1295	1387	-	-
60 x 60	2	2060	1020	-	-	-
80 x 60	2	2607	1567	-	-	-
100 x 60	2	3167	2127	-	-	-
120 x 60	3	2170	2035	2170	-	-
150 x 60	3	3015	2035	3015	-	-
200 x 60	5	1750	2035	2640	2640	1750
60 x 80	2	2820	1380	-	-	-
80 x 80	2	3567	2127	-	-	-
100 x 80	2	4327	2887	-	-	-
120 x 80	3	2965	2775	2965	-	-
150 x 80	3	3995	2775	3995	-	-
200 x 80	5	2247	2775	3600	3600	2247
100 x 100	2	5487	3647	-	-	-
120 x 100	3	3705	3404	3705	-	-
150 x 100	3	5130	3404	5130	-	-
200 x 100	5	3065	3404	4416	4416	3065

## CLASSIFICATION INDEX ACCORDING TO THE STANDARD EN 50085-2/3

Tipo EDGE

Reference to the specifications for slotted and solid trunkings for installation inside of electrical panels.	Classification min. ten	nperature of trans	port and storage	Classification min. te	Classification max temp.of use				
	1 <sup>st</sup> Code	Temp. C°	Temp. F°	2 <sup>nd</sup> Code	Temp. C°	Temp. F°	3 <sup>rd</sup> Code	Temp. C°	Temp. F°
	1xx	-45	-49	xlx	-25	-13	xx1	+60	140
	2xx	-25	-13	x2x	-15	5	xx2	+90	194
	3xx	-5	23	x3x	-5	23	xx3	+105	221
				x4x	+5	41	xx4	+120	248
				x5x	+15	59			
Derivating classification		ECABL			ALOFREE				
of our wire ducts	Tipo E		231	Tipo EHF		222			
	Tipo E/4		231						

231



## TESTS OF FLAMMABILITY, QUALITY AND RESISTANCE REFERRED TO ELECTRICAL SYSTEMS

	Test on printout
IEC 695-2-2	<b>Description:</b> the test simulates the effect of small flames caused by faulty conditions inside electrical equipment. The test piece is subjected to a 12 mm long flame produced by a burner whose nozzle has a diameter of 0.5 mm. Propagation of the flame is tested by placing under the specimen a layer of material of the components which in reality surround the part and a sheet of tissue paper. <b>Evaluation:</b> the duration of combustion is less than 30" and the flame does not propagate to the underlying material. <b>Classification:</b> pass/fail.
UL 94 Vertical positioning (standard in force in the USA)	Description: the test simulates the effect of small flames caused by faulty conditions inside electrical equipment. The test piece is subjected to a 12.7 mm long flame produced by a nazzle with diameter of 9.5 mm.         The flame is applied for 10", repeating this for a further 10" after extinguishing of the fire. Propagation of the flame is tested by placing dry cotton wool under the specimen.         Evaluation: the duration of combustion is less than the set time and there are few drips of flamed material.         Classification:         V0: combustion stops within 10" without flame propagation.         V1: combustion stops within 30" without flame propagation.         V2: combustion stops within 30" with flame propagation.
IEC 695-2-1 (Glow Wire)	Description: this test simulates the thermal stresses produced by heat or ignition sources such as overloaded resistors or glowing metal elements. The specimen is clamped for 30" with the force of 1 Newton against the tip of a glowing metal wire with specified temperatures (750, 850, 950°C). A sheet of paper and board are placed under the specimen. Evaluation: extinguishing of the flame and ceasing of glowing within 30" from removal of the wire, no ignition of the paper and no scorching on the board. Classification: pass/fail.
CSE RF 1/75/A	Description: the test gives an approximate indication of the reaction to fire of a material during the initial phase of a fire. The flame, 40 mm high, is applied on both faces of a vertical specimen, on the lower edge. Evaluation: various parameters are considered and set, according to specified formulae: post-combustion time, post-glowing time, damaged area, dripping. Classification: on the basis of the calculation procedures categories I, II, III, IV are assigned in decreasing order of safety.
CSE RF1 CSE RF3	Description: combination of the classifications CSE RF 1 and CSE RF 3. Classification: six classes are defined: 0 (non-combustible material), 1, 2, 3, 4, and 5, through the combination of the categories obtained from the two tests.
<b>CEI 20-37</b> Part 2	Description: the presence of a certain number of substances in fumes generated by the product at a temperature of 80°C is gauged. The substances measured are: carbon dioxide, carbon monoxide, hydrochloric acid, hydrofbuoric acid, hydrofbuoric acid, hydrofbuoric acid, sulphur dioxide, hydrogen sulphide, nitrogen oxides (NO+NO 2), ammonia, acrylonitrile, formaldehyde. Evaluation: according to a predefined formula, a toxicity rating is obtained (from 0 onwards) from the quantities of all the substances measured. Classification: according to the rating. (ENEL, the Italian electricity board, for example, sets 5 as maximum acceptability and the Italian navy 2.5).
	Tests on material
CEI 23-8	Description: the temperature at which the material, under load, starts to soften, is measured. A test piece of a pipe cut longitudinally is brought to a temperature of 90°C. A steel ball, 5 mm in diameter, is pressed against the inner surface of the test piece with a force of 20 Newton. After 1 hour the ball is removed. Evaluation: the diameter of the imprint left by the ball on the surface, measured cold, must not be more than 2 mm. Classification: pass/fail.
CEI 23-8	<b>Description:</b> the resistance to the prolonged action of a flame is measured. The test consists in subjecting a piece of pipe to the action of a 100 mm flame (energy produced: 775 Kcal/h) slanting 45° upwards for 1 minute. The test is repeated three times. <b>Evaluation:</b> after this time, if the test piece burns through self-combustion, the flames must extinguish within 30". <b>Classification:</b> pass/tail.
CEI 23-8	Description: the pipe test piece is subjected to compression of 750 Newton for 1 minute. The variation in the external diameter, before and after removal of the force, is measured. Evaluation: the diameter must not exceed the original one by 25% with the force still applied, and by 20% after the force has been removed. The test pieces must not crack. Classification: pass/fail.
CEI 23-8	<b>Description:</b> the test piece, after being kept for 10 days in an oven at 60°C, is brought to the temperature of -25°C and then subjected to impact through the falling of a hammer, whose weight varies according to the diameter, from a height of 20 cm. <b>Evaluation:</b> the test pieces must not show fractures or cracks. <b>Classification:</b> pass/fail.
CEI 23-8	<b>Description:</b> a test to determine the degree of insulation, performed in two phases. The U-bent pipe is immersed, except for its ends, in water at a temperature of 20°C and filled with water. After 24 hours' immersion, a voltage of 2000V ac is applied to two electrodes, one inside the pipe the other in the receptacle, at a frequency of 50Hz, for 15 minutes. The same pipe is immersed in water at 60°C and after two hours the electrical resistance is measured, applying a continuous voltage of 500V. <b>Evaluation:</b> 1) there must be no perforations of the pipe. 2) the insulation resistance must not be below 100 M $\Omega$ . <b>Classification:</b> pass/fail.
	IEC 695-2-2 UL 94 Verical positioning (standard in force in the USA) IEC 695-2-1 (Glow Wire) CSE RF 1/75/A CSE RF 1/75/A CEI 20-37 Part 2 CEI 23-8 CEI 23-8 CEI 23-8 CEI 23-8

TECHNICAL DATA

MATERIALS' TECHNICAL PROPERTIES						
	STAND	ARDS	MEASUREMENT UNIT	NORYL GREY	PVC	ABS
MECHANICAL PROPERTIES						
TENSILE STRENGTH TO YELD POINT	ASTM D 638	DIN 53455	MPa	45	46.2	-
ULTIMATE TENSILE STRENGTH	ASTM D 638	DIN 53455	MPa	45	37.3	40
ELONGATION TO YIELD POINT	ASTM D 638	DIN 53455	%	-	25	
ULTIMATE ELONGATION	ASTM D 638	DIN 53455	%	50	-	-
TENSILE MODULUS	ASTM D 638	DIN 53457	MPa	2400	-	-
		D.1.1.50.450				
FLEXURAL STRENGTH TO YIELD POINT	ASTM D 790	DIN 53452	MPa	90	-	-
FLEXURAL MUDULUS	ASTIM D 790	DIN 53457	MPa	2500	2736	2400
HARDNESS H358/30	-	DIN 53456	MPa	87	-	-
ROCKWELL HARDNESS	ASTM D 758	-	-	R115		
SHORE HARDNESS	-	-	-	-	79 D	110 R
	۵۹/۱۵۵ ۱۵۵	DIN 53453	K 1/m2	15	_	_
IZOD TEST WITH NOTCH AT 23°C	ASTM D 256	DIN 33433	I/m	250	7/	70
	A01WID 200	-	J/m	200	/1	40
IZOD TEST, WITH NOTCH, AT JOSC	_	-	J/m	-	41	
IZOD TEST, WITH NOTCH, AT -30°C	_	-	J/m		7	0
IZOD TEST, WITH NOTCH, AT -40°C	ASTM D 256	-	J/m	120	-	-
THERMAL PROPERTIES						
SOFTENING TEMPERATURE, VICAT METHOD B	ASTM D 1525	-		105	-	-
VICAL VST/B/120	-	DIN 53460	-0°	100	76	95
DEFORM. TEMPERATURE UNDER LOAD, 1,82 MPa	ASTM D 648	DIN 53461	-	-	-	
	ASIM C 117	-	W/m°C	0,16	-	-
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM D 696	VDE 0304/1	m/m°C	7x10-10	0,1	0,19
PHYSICAL PROPERTIES						
SPECIFIC WEIGHT	ASTM D 792	DIN 53479	g/cm <sup>3</sup>	1,10	1,55	1,05
WATER ABSORPTION, 24 HOURS	ASTM D 570	-	%	0,08	-	-
WATER ABSORPTION AT EQUILIBRIUM	ASTM D 570	-	%	0,37	-	-
WATER ABSORPTION AT EQUILIBRIUM AT 100°C	ASTM D 570	-	%	0,55	-	-
	ACTM D 257		Ohm m	1015		
	ASTIVI D 207	-	UIIII-III k\//mm	>1010	-	-
	ACTM D 150	-	KV/11111	2 70	-	-
		-	-	2,70	-	-
	ACTM D 150	-	-	2,00	-	-
DISSIPATION FACTOR AT 1 MH7	IEC 60250	-	-	0,0004	-	-
	120 00200			0,0003		
FLAME RESISTANCE						
OXIGEN INDEX	ASTM D 2863	-	%	33	-	-
SELF-EXTINGUISHING (mm OF THICKNESS)	UL 94	-	-	V-1(1,5)	V-0	V-2
OPTICAL DENSITY, 90 SEC.	ASTM E 662	-	-	76	-	-
4 min	ASTM E 662	-	-	181	-	-
DSMC	ASTM E 662	-	-	414	-	-
			(sp. 2 mm)			

Typical values only, measured on injection bars. All values measured at standard laboratory conditions (23°C - 50% relative humidity) unless otherwise specified.

CHEMICAL RESISTANCE C	CHEMICAL RESISTANCE OF NORYL										
CHEMICALS	CLASS	CHEMICALS	CLASS	CHEMICALS	CLASS						
Ethyl acetate	C	Alcalis	Α	Aromatic hydrocarbons	C						
Acetone	C	Ethyl alcohol	C	Chlorinated hydrocarbons	C						
Mineral acids (diluited)	Α	Isopropyl alcohol	C	Potassium hydroxide 50%	Α						
Mineral acids (concentrated)	В	Methyl alcohol	Α	Sodium hydroxide 50%	Α						
Acetic Acid 90%		Antifreeze	C	Transmission fluid	C						
Hydrochloric Acid 37%		Petrol	B-C	Methacrylate sealant	C						
Phosphoric Acid 60%	Α	Ketones	C	White mineral oil							
Nitric Acid 90%		Greases and oil	В	Detergent solutions	Α						
Sulphuric Acid 98%		Aliphatic hydrocarbons	В	Solvents/Alcohols	Α						
LEGEND: CLASS <b>A</b> = resistant;	CLASS <b>B</b> = limited res	sistance; CLASS $\mathbf{C}$ = not resistant;	= not tested.								



TECHNICAL DATA

# PVC RESISTANCE TO CHEMICAL AGENTS

CHEMICAL COMPOUND	CONCENTRATION	TEMP. ° C	RESISTANCE OF PVC	CHEMICAL COMPOUND	CONCENTRATION	TEMP. ° C	RESISTANCE OF PVC
LEAD ACETATE, solution	hot saturated	50	+	CALCIUM CHLORIDE, solution	dilute	40	+
VINEGAR (wine)	commercially available	40	+	IRON CHLORIDE, solution	up to 10%	40	+
ACETONE	trace	20		HEXANE	•	20	+
ACETONE	100%	20		ETHYL BENZOL	-	20	-
FATTY ACIDS	100%	60	+	FORMALDEHYDE	dilute	40	+
ARSENIC ACID, solution	dilute	40	+	FREON 12	100%	20	+
BENZOLIC ACID. solution	any concentration	20	+	OIL. heating	-	20	•
BORIC ACID, solution	dilute	40	+	GELATINE, solution	all concentrations and types	40	+
BUTYRIC ACID. solution	20%	20	+	GLYCERINE, solution	all concentrations and types	60	+
CITRIC ACID, solution	up to 10%	40	+	HYDROGEN	100%	60	+
HYDROCHLORIC ACID. solution	up to 30%	40	+	BARIUM HYDROXIDE, solution	all concentrations and types	60	+
CHROMIC ACID, solution	up to 50%	40	+	POTASSIUM HYDROXIDE, solution	up to 40%	40	+
FORMIC ACID	100%	20	+	SODIUM HYDROXIDE solution	up to 40%	40	+
FORMIC ACID solution	un to 50%	40	+	MILK	commercially available	20	+
NITRIC ACID solution	up to 30%	50	+	LIQUID ANTIERFEZE for motor vehicles	commercially available	20	+
BATTERY ACID	-	60	+	IYE	-	-	-
PRUSSIC ACID		60	+	MOLASSES	industrial concentrate	20	+
SILICIC ACID solution	all concentrations and types	60	+	PETROL/BENZOL MIXTURE	80/20%	20	-
	un to 40%	40		NAPHTHAIENE	-	20	
SUCCINIC ACID, solution	-	40		NEKTAL BY solution	diluto	10	1
	10%	<u> </u>			commercially available	40	
TARTARIC ACID solution	un to 10%	10				20	
	100%	40	+		100%	20	+
		40	+		100%	20	+
		20	+		100/0	20	<del>+</del>
		20	+		-	20	+
	saturatea	20	•		100%	00	•
	•	20	•		-	20	+
	•	20	•		100%	20	+
	•	40	+		100%	20	+
	normai	40	•		100%	60	•
AQUA VITAE, dii types		20	+		100%	20	+
DENATURED ETHYL ALCOHOL (SOI. 2%)	96%	20	+	LIQUID PAKAFFIN	100%	20	-
METHYL ALCOHOL	100%	40	+		100%	20	+
AMMUNIA GAS	100%	60	+	PAKAFFIN	-	60	+
	100%	20	•	PUIASSIUM PERMANGANAIE	<u>up to 6%</u>	20	+
CARBON DIOXIDE dry	100%	60	+	LIQUID PROPANE	100%	20	+
PURE ANILINE	100%	20		COOKING SALL, solution	dilute	40	+
PHOTOGRAPHIC DEVELOPMENT BATHS	commercially available	40	+	BARIUM SALIS, solution	all concentrations	60	+
PETROL	100%	60	+	FERTILIZER SALTS, solution	<u>up to 10%</u>	60	+
PETROL for tests	•	20	+	ZINC SALTS, solution	cold diluted	60	+
BENZOL	100%	20		SODIUM CARBONATE, solution	dilute	40	+
ALCOHOLIC DRINKS	<u>commercially available</u>	20	+	ALUMINIUM SULPHATE, solution	dilute	40	+
BEER	commercially available	20	+	COPPER SULPHATE, solution	dilute	40	+
BORAX, solution	dilute	40	+	ZINC SULPHATE, solution	dilute	40	+
BROMINE, liquid	100%	20		SOLUTION for photographic laboratories	commercially available	40	+
BUTADIENE	50%	60	+	FRUIT JUICES	usual concentration	60	+
BUTANE, gas	•	20	+	CARBON TETRACHLORIDE technical	100%	20	•
BUTANOL	up to 10%	20	+	TETRAETHYL LEAD	100%	20	+
BEESWAX	commercially available	20	+	TETRAHYDROFURAN	100%	20	-
CHLORINE active	usual concentration	40	+	TINCTURE OF IODINE	commercially available	20	-
CHLORINE GAS, dry	100%	20	+	TOLUENE	100%	20	-
CHLORINE GAS, wet	0,5%	20	+	UREA, solution	up to 10%	40	-
LIQUID CHLORINE	•	20		URINE	normal	40	+
ALUMINIUM CHLORIDE. solution	dilute	40	+	WINES, red and white	commercially available	20	+
CALCIUM CHLORIDE. aaueous (sedim.)		60	•	SULPHUR	-	60	•

**Legend:** + Resistant - Not resistant • Limited resistance

#### FLAME RESISTANCE

Italian Ministry of Interiors Approval Cod. MI422C30CD100001 File 4190, sub. 326 - Material prototype: G30 CAUAIN



ACCESSORIES - TECHNICAL DATA

"CP" SPIRAL					
RoHS COMPLIANCE					
1 A					
CODE	Øı A	nm B	MAX ELASTICITY OF TUBING	COLOUR	PACK m
CP3	1,5	3	2-12	Т	400 (8x50)
CP6	4,2	6	5-50	Т	200 (8x25)
CP8	6,0	8	8-70	Т	100 (4x25)
CP10	7,6	10	12-100	Т	100 (4x25)
CP12	9,6	12	14-120	Т	100 (4x25)
CP14	11,6	14	18-140	Т	60 (3x20)
CPA3	1,5	3	2-12	A	400 (8x50)
CPA6	4,2	6	5-50	A	200 (8x25)
CPA10	7,6	10	12-100	A	100 (4x25)
CPA12	9,6	12	14-120	A	100 (4x25)
CPN3	1,5	3	2-12		400 (8x50)
CPN6	4,2	6	5-50		200 (8x25)
CPN8	6,0	8	8-70		100 (4x25)
CPN10	7,6	10	12-100		100 (4x25)
CPN12	9,6	12	14-120		100 (4x25)
T = transparent	white V/2				

#### **"FLX" FLEXIBLE DUCT TO GATHER THE CABLES** WITH ADHESIVE ON THE BOTTOM. MATERIAL: NYLON





CODE	В	н	L	COLOUR	PACK Pcs.
FLX10	12,5	12,5	500		50
FLX20	20	20	500		50
FLX30	30	30	500		50
FLX40	40	40	500		50

## "GUEST" EXTENSIBLE STOCKING SHEATHS



CODE	Ø mm	COLOUR	PACK m
GUEST 05	5 10		200
GUEST 10	10 18		200
GUEST 20	20 30		100
GUEST 30	30 45		100
GUEST 50	50 75		50

Suitable for flexible electrical wire and cables, the extensible sheath protects the wires from abrasion and improves the thermal and electrical isolation. The GUEST sheath allows pulling wires out off the mesh at different locations.

#### -----

SPECIFICATIONS
Von-toxic
Resistant to abrasive and combustible substances,
iquids, solvents, moulds
Excellent resistance to abrasion
Diameter of polyester yarn 0,22 mm
Norking temperature -50°/+150°C
Max continuous working temperature +120°C
Max peak temperature +180°C

Flammability rating UL94 HB Oxygen index L01 27,5 Melting point 257°C Softening point 230° - 240°C Water absorption in normal climate conditions 0,4% Water absorption and saturation 0,5 - 0,6% Max elongation at break 23 - 28% Water contraction at 100° CX3 2 - 10%

# "SPIFAST" SHEATH AND TOOL





CODE	DESCRIPTION	Ømm	CABLES 1x2,5 MAX	COLOUR	PACK m
SPF08N	Sheath	8	6		100
SPF15N	Sheath	15	10		50
SPF20N	Sheath	20	14		30
SPF25N	Sheath	25	14		20
					PACK Pcs.
SPFUT08	Tool	8	-	-	10
SPFUT15	Tool	15	-	-	10
SPFUT20	Tool	20	-	-	10
SPFUT25	Tool	25	-	-	5

**RoHS COMPLIANCE** 



# **INDUSTRIAL SWITCHBOARDS**

ACCESSORIES - TECHNICAL DATA





CABLE-RETAINING C	ROSS-ARMS	
		TIIIIII
CODE	FOR TRUNKING B	PACK Pcs.
FCV12040	60/120x40	40
FCV12060	40/200x60	25



COVERS TO INSTALL OVER IF METAL SCREWS ARE USED TO SECURE THE DUCT





CODE	FOR TRUNKING B	PACK Pcs.
TR4	40	500 (5x100)
TR6	60	500 (5x100)
TR8	80	400 (5x80)
TR10	100/120	250 (5x50)
TR15	125	200 (1x200)

#### **CABLE TIE HOLDER**



# LABEL HOLDER FOR WIRE DUCTS RoHS COMPLIANCE Image: Colspan="2">Image: Colspan="2">PACK Pcs. CODE PACK Pcs. PTE 100 (2x50)

#### CATALOGUE 2013

ACCESSORIES - TECHNICAL DATA

UNIVERSAL CAE	SLE-HOLDI	ER	
RoHS COMPLIANCE	Ð		
1		I	111
CODE		FOR TRUNKING H	PACK Pcs.
FMC		60/80	40 (4x10)

#### WIRE DUCT IDENTIFICATION KIT

 

 RoHS COMPLIANCE

 CODE
 DESCRIPTION
 PACK KIT

 MARK15KIT
 - n. 10 label-holder cover. Bar length 0,5 m. - n. 20 cover-holders
 20



# COVER HOLDER FOR PTECO15



Rľ	VETS	5	



RIV2 4,5 To fix the ducts to panels. Material: Nylon





CODE	Ømm	DESCRIPTION	COLOUR	PACK Pcs.
PRRIV	6,5	For the fast installation of the RIV1		4 (4x1)
PRRIV2	4,5	For the fast installation of the RIV12		4 (4x1)

## CUTTER FOR TRUNKINGS MAX 120x120 mm



CODE	DESCRIPTION	PACK Pcs.			
ETC120	Cutter for trunkings	1			
ETC120L	Spare blade	1			
This bench-mounted cutter will allow you to cut precise lengths of ducts, thank to the attached ruler stuck on the side panel. The well-sharpened blade will give you burr-free results as well.					

CANALYIAST



ACCESSORIES - DIN RAILS





#### **DIN RAILS**











**DIN RAILS - ACCESSORIES** 



## SUPPORT BRACKET IN GALVANISED STEEL WITH M6 THREADED HOLE

 CODE
 COLOUR

10

Sendzimir

PDSZM6

PERFORATED DIN RAIL							
RoHS COMPLIANCE	Din 46277/ FEUILLE 1	CEnELEC En	1 50.035				
	25	6,3 16,5 32					
CODE	COLOUR	LENGTH m	PACK m				
PD32ZF6	Sendzimir	2	20				



## MANUAL PROFILE CUTTING TOOL, 2 MOLDS



# **GENERAL NOTES**

**GENERAL SALES CONDITIONS - SYMBOLS** 

- Prices and conditions only become binding at the time of acceptance of the order, by us, with written confirmation. Your purchase order is an implicit acceptance of our General Conditions of Sale.
- 2 The conditions and other commitments entered into the quotation by us are only valid if an order is placed for everything which is included in that quotation.
- 3 Estimates, outline designs, etc. attached to the quotation are our exclusive property and may not therefore be communicated to third parties without our written authorisation.
- 4 Any modifications to the quotation and to these general supply conditions must be in writing and are limited to what is clearly agreed.

#### WEIGHTS - DIMENSIONS - TECHNICAL DATA

5 - Estimates, projects, drawings, photographs, colors and technical specifications listed in the catalogues, price lists and offers, are meant to be indicative and not binding for the company, which reserves the right to modify them at any time for improving product performances. For more information, please call our. technical department.

#### PRICES

6 - Prices and discounts on list prices and quotations are subject to variation according to market requirements or in line with variations in the cost of raw materials or labour, without any prior notice to our Customers. Prices are EXW-Incoterms 2010; transport costs, customs, customs duties and any other types of expense are always payable by the Customer, unless otherwise agreed in writing.

#### PACKING AND TRANSPORT

7 - Packaging, which is invoiced at cost, is non-returnable. Our Company standard condition of delivery is EXW and therefore cannot be held responsible for missing or irregular deliveries by carriers, being explicitly understood that, even if the Company helps organize the shipment to the Customer's premises, the goods travel at the entire risk of the Purchaser. Any return of goods must first be authorised by our Company and goods must be returned free of any cost to our Factory warehouses.

#### **DELIVERY TIMES**

8 - Agreed delivery times are indicative and not legally binding and are subject to the clause "unless sold" for goods indicated as ready; they are valid only in normal working and supply conditions. Our Company shall in no circumstances or for any reason be liable to pay compensation of any kind of direct or indirect damage due to late deliveries.

#### **PAYMENT - RETENTION OF PROPERTY TITLE**

9 - Payment terms and conditions must be agreed in writing or, failing this, shall be understood to be net cash on delivery of the goods. The goods remain the property of Olan Ltd. and will not be transferred to the client until the same has not made full payment of the price stated in the invoice, meaning the sale under the above condition. Therefore, in case of non-payment, Olan Ltd will be entitled to claim the delivered goods even in case of bankruptcy of the buyer. In the event of late payment, the Customer undertakes to pay interest on delayed payment equivalent to the average market rate applied by Financial Institutions, plus 4%. If the purchaser fails to comply, even partially, with any of the conditions agreed for collection of the goods or for settlement and payment of individual invoices, our Company has the right to immediately suspend further deliveries and consider itself free of any contractual obligation, while retaining all its rights relating to failure to comply, with the contract. Unless expressly agreed otherwise, payments must always be made directly to our Company.

#### CLAIMS

10 -Any claims relating to the supply of goods must reach us within 12 days of receipt of such goods, after which time they will no longer be accepted. Every claim must be based on concrete facts in order to be taken into consideration. We shall be entitled, at our discretion, to take back or replace goods which the Customer demonstrates to be faulty, but will not accept any costs for repairs or modifications which have been made without our authorisation. It remains understood that any claims on any single consignment of goods will have no effect on the balance of the order or the obligation, or on payment for other goods already received without complaint.

#### WARRANTY

- 11 -The warranty we offer for products made by us is 12 months from the date of the corresponding invoice and, during this period, we undertake to repair or replace free of charge in our workshops any parts or equipment which are unusable due to defective materials or workmanship. In all cases, we reserve the right to decide, at our entire discretion, whether repair or replacement is most appropriate. We however exclude the possibility of sending our personnel to make on-site inspections to installations where our equipment is installed, except in cases where, at our entire discretion, we believe it is necessary to check the operating conditions to which our equipment has been subjected.
- 12 -Our warranty is naturally valid provided that the Customer has used and treated our equipment with due care, that the equipment has not been misused or modified and that all the technical requirements contained in our price lists and instruction sheets have been complied with. The warranty does not cover parts which, due to the nature of the material with which they are made or to their specific use, are subject to premature wear; damage due to normal wear and tear is also excluded.
- 13 -The Customer must send written notification of failures and defects, giving an exact description of their nature and we shall arrange, within the necessary time required, repairs and replacement under the above terms and conditions. Material for repair or replacement must be delivered to us, carriage paid.
- 14 -With the repair or replacement of the equipment or any of its parts which were defective, our Company shall be relieved of all and any responsibility of any kind, while the Customer shall consider him/herself entirely satisfied by this fact and shall renounce any request for damages and costs. In certain cases, we may allow the Customer to arrange any necessary repairs or replacements, it being understood that our only obligation will be to refund any out-of-pocket expenses accepted as essential to put our equipment in working order.
- 15 -In the event of disputes of a technical nature, the parties shall submit to the opinion of an expert to be appointed by joint agreement or, if agreement cannot be reached on the appointment, selected by the President of the Milan Court.
- 16 -We shall not accept any expenses which may have been borne by the Customer, even within the warranty period, without our prior written authorisation.
- 17 -Our Company reserves the right to use, in the manufacture of its equipment, any material it deems the most suitable and to make any modifications it deems necessary to the shape, weight or dimensions of its products.

#### DISPUTES

- 18 -All agreements, even if entered into with foreign companies or individuals or for materials supplied abroad, shall be governed solely by current Italian law. The Milan courts shall have sole jurisdiction over any dispute which may arise in relation to the performance of the Agreement, including by way of exception to sections 31 et seq. of the Civil Procedure Code, and the Custamer shall not be entitled to file proceedings before the courts of any other place, even in the case of proceedings involving a guarantee or lis alibi pendens, without prejudice to the supplier company's right to take proceedings, as plaintiff, in the courts of the Custamer's place of residence, whether in Italy or abroad.
- 19 -Disputes do not in any way relieve the Customer from having to comply with agreed payment terms and do not imply any extension of the terms agreed.

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#### SYMBOLS

A				HEAT RES	ISTANCE
Ō	Temperature of use C° Min/Max	Vn	Nominal voltage		
		_		TB	Thermocompression with ball
IP	IP Protecion grades		Grounding	0.11/7	
		11/		GWI	Glow wire test °C
	Complete isolation protection	IN	Mechanical protection grade		
PI	Breaking power				



ADVANCED TECHNOLOGIES FOR TRUNKING SYSTEMS

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