

WIRING PIPES AND ACCESSORIES



Wiring pipes and accessories

The pipes and accessories are made in compliance with ČSN EN 61386-1 ed. 2, specifications and approved documentation.

The PVC pipes and accessories passed the test of resistance against spread of flame in compliance with ČSN EN 61386-1 ed. 2. According to ČSN 33 2312 ed. 2, its use is possible in materials with fire reaction class A1 - F in accordance with ČSN EN 13501-1.

Polyethylene pipes of type LPE 1 and LPE 2 with low and very low mechanical resistance can be used only for installing on/into class A1 non-inflammable materials. The pipes are intended for installation to the distribution of low voltage.

Manufacturer recommends the assembling of plastic pipes at the temperature over 0 °C.

The ČSN 64 0090 standard is applicable for storage.

It is possible to install flexible and tough "necked" pipes with accessories on premises where there is danger of explosions of flammable gases and vapours (zone 2) or danger of explosions of flammable dust (zone 22); the wiring must be performed according to ČSN EN 60 079-14.

Flexible pipes	3-4
Rigid socket pipes	3-14
Cable protection KOPOFLEX® and KOPODUR®	3-22
Sectional protection KOPOHALF®	3-25
Earthen channel KOPOKAN	3-26
Optical cable protectors - HDPE	3-27
Steel pipes	3-30
Aluminium pipes	3-39
Flexible metal pipe	3-41
Drainage pipe KOPODREN	3-42

Tube length tolerance	- rigid: ± 10 mm	Protective tube length tolerance	- KOPOFLEX: ± 0,5 m
	- flexible: ± 1 %		- KOPODUR: ± 1 %
			- HDPE: ± 2 mm/m
			- KOPOHALF ± 10 mm
			- KOPOKAN ± 10 mm

Icons - legend

 material	 UV stable
 temperature resistance, scope of application (°C)	 color
 fire reaction class of underlying material	 thread
 self-snuffing	 minimum bending radius (mm)
 mechanical resistance / load limit value (N)	 sheet metal thickness
 limit of compression strength (kPa)	 mechanical protection
 classification code according to ČSN EN 61386-1	 package (m; pcs)
 classification code according to ČSN EN 61386-25	 accessories, additional assortment
 area with a risk of explosion	dn outside diameter
 level of protection - IP classification	di minimal inner diameter
 functionality during a fire	R bending radius
 halogen-free material	L length



Classification codes for the declared properties of the piping system according to ČSN EN 61386-1 edition 2

The code classifies the conduits and their accessories according to compressive strength, impact strength, minimum and maximum admissible installation temperature.

first digit		second digit		third digit		fourth digit		fifth digit	
compressive strength		impact strength		lowest admissible temperature		highest admissible temperature		resistance to bending	
1	very low 125 N	1	very low 0,5 J	1	+ 5 °C	1	+ 60 °C	1	lead
2	low 320 N	2	low 1 J	2	- 5 °C	2	+ 90 °C	2	flexible
3	medium 750 N	3	medium 2 J	3	- 15 °C	3	+105 °C	3	flexible/elastic
4	high 1250 N	4	high 6 J	4	- 25 °C	4	+120 °C	4	flexible
5	very high 4000 N	5	very high 20,4 J	5	- 45 °C	5	+150 °C		
						6	+250 °C		
						7	+400 °C		

Pipes: KOPOS TYP 1516E - 1563 EN 2241 (320 N) PVC
 KOPOS TYP 4016E - 4063 EN 3341 (750 N) PVC
 KOPOS TYP 8016E - 8063 EN 4441 (1250 N) PVC

Classification codes for the declared properties of the fixing equipment according to ČSN EN 61386-25

Classification codes for the declared properties of the piping system fixing equipment.

first digit	resistance to lateral load	2	low lateral load
		3	medium lateral load
		4	high lateral load
second digit	impact resistance	1	very low impact strength
		2	low impact strength
		3	medium impact strength
		4	high impact strength
		5	very high impact strength
third digit	range of low temperatures	1	+5 °C
		2	-5 °C
		3	-15 °C
		4	-25 °C
		5	-45 °C
fourth digit	range of high temperatures	0	+40 °C
		1	+60 °C
		2	+90 °C
		3	+105 °C
		4	+120 °C
		5	+150 °C
		6	+250 °C
		7	+400 °C
fifth digit	corrosion resistance	1	low protection inside and outside
		2	medium protection inside and outside
		3	medium protection inside, high protection outside
		4	high protection inside and outside
sixth digit	flame spread resistance	1	flame retardant
		2	spreading flame
seventh digit	resistance to axial load	0	not specified
		1	specified by the producer



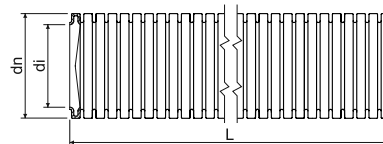
All pipes and accessories (except for Weicon) are in compliance with EU directives.



Flexible pipes of types 14.. and 12.. and rigid pipes of types 15.., 40.., 80.., 15.. HF, 40.. HF including elbows and couplings are in compliance with German electrical Standard.

LPFLEX

- very low mechanical resistance

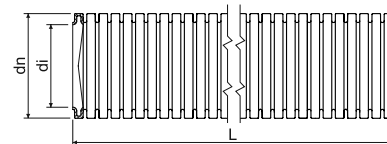


- ✓ For installation into or under the parget.
- ✓ Suitable for mounting into plaster walls and ceilings.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item		conf.	description		dn	di min.	L		EAN	
					mm	mm	m	m		pg.
EN	2316E	H100	-	grey-white	16	10,7	100	7200	8595057615991	3-16 - 3-18
		H100D	with wire				100	7200	8595057619180	
		H50	-				50	5400	8595057651173	
		H50D	with wire				50	5400	8595057651326	
	2320	H100	-		20	14,1	100	4000	8595057616004	
		H100D	with wire				100	4000	8595057619197	
		H25	-				25	3900	8595568905321	
		H50	-				50	4500	8595057651180	
	2325	H50D	with wire		25	18,3	50	4500	8595057651333	
		H50	-				50	3000	8595057616011	
	2332	H50D	with wire		32	24,3	50	3000	8595057619203	
		H50	-				50	1600	8595057616028	
	2340	H50D	with wire		40	31,2	50	1600	8595057619210	
	2350	H50	-				25	1000	8595057619692	
ČSN	2313	H25	-	grey-white	18,7	13,5	25	800	8595057619708	3-6
		H100	-				100	4000	8595057600317	
	2316	H50	-		21,2	16,0	50	6300	8595057600324	
		H100	-				100	3600	8595057600331	
	2323	H50	-		28,5	22,9	50	3000	8595057600348	
		H100	-				100	2800	8595057600355	
	2329	H50	-		34,5	28,4	50	2100	8595057615366	
		H100	-				50	2000	8595057600379	
	2336	H50	-		42,2	35,9	50	1000	8595057600386	

MONOFLEX

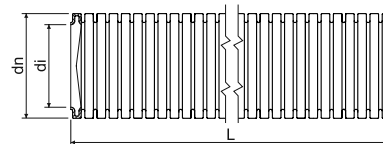
- low mechanical resistance



- ✓ For surface installation, into or under parget.
- ✓ Suitable for mounting into hollow walls, plaster walls and ceilings.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item		conf.	description		dn	di min.	L		EAN	
					mm	mm	m	m		pg.
EN	1416E	F50	-	black	16	10,7	50	5400	8595568909664	3-16 - 3-18
		H50	-	white			50	5400	8595057665842	
		K50	-	light grey			50	5400	8595057616035	
		K50D	with wire				50	5400	8595057619753	
	1420	F50	-	black	20	14,1	50	4500	8595568909671	
		H50	-	white			50	4500	8595057665859	
		K100	-	light grey			100	4000	8595568910097	
		K25	-				25	3900	8595057697461	
		K50	-				50	4500	8595057616042	
		K50D	with wire				50	4500	8595057619760	
	1425	F50	-	black	25	18,3	50	3000	8595568909695	
		H50	-	white			50	3000	8595057665866	
		K25	-	light grey			25	2250	8595057699298	
		K50	-				50	3000	8595057616059	
		K50D	with wire				50	3000	8595057619777	
	1432	F50	-	black	32	24,3	50	1600	8595568909718	
		H50	-	white			50	1600	8595057665873	
		K15	-	light grey			15	1620	8595568905413	
		K25	-				25	1500	8595057699304	
		K25D	with wire				25	1500	8595057619784	
		K50	-				50	1600	8595057616066	
	1440	F50	-	black	40	31,2	50	1000	8595568909725	
		H25	-	white			25	1000	8595057693579	
		K25	-	light grey			25	1000	8595057619715	
		K25D	with wire				25	1000	8595057621510	
	1450	F25	-	black	50	39,6	25	800	8595568909732	
		K25	-	light grey			25	800	8595057619722	
ČSN	1413/1	K100	-	light grey	18,7	13,5	100	4000	8595057600416	3-6
	1416/1	K100	-		21,2	16,0	100	3600	8595057600423	
	1423/1	K100	-		28,5	22,9	100	2800	8595057600430	
	1429/1	K50	-		34,5	28,4	50	2000	8595057600447	
	1436/1	K50	-		42,2	35,9	50	1000	8595057600454	

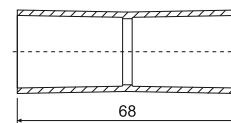
SUPER MONOFLEX - medium mechanical resistance



- ✓ For surface installation, into or under parge.
- ✓ Suitable for mounting into hollow walls, plaster walls and ceilings.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

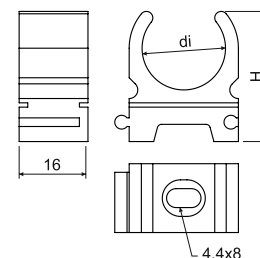
item	conf.	description		dn mm	di min. mm	L m		EAN	pg.
EN	1216E	L50	-	16	10,7	50	5400	8595057612914	3-16 - 3-18
		L50D	with wire			50	5400	8595057619814	
	1220	L50	-	20	14,1	50	4500	8595057612921	
		L50D	with wire			50	4500	8595057619821	
	1225	L50	-	25	18,3	50	3000	8595057612938	
		L50D	with wire			50	3000	8595057619838	
	1232	L25	-	32	24,3	25	1500	8595057612945	
		L25D	with wire			25	1500	8595057619845	
	1240	L25	-	40	31,2	25	1000	8595057612952	
		L25D	with wire			25	1000	8595057693753	
	1250	L25	-	50	39,6	25	800	8595057612969	

Connections for flexible pipes ČSN



item	conf.		pipe dn		EAN
			mm	pcs	
ČSN	0216	XX	white	50; 400	8595057600614
	0223	XX		300	8595057600621
	0229	XX		200	8595057600645

Clamps for flexible pipes ČSN

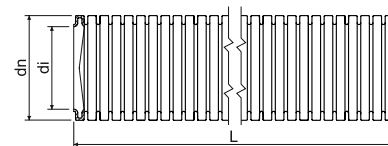


- ✓ The clamps are equipped with fastening elements for placing next to each other to create continual row thereof as well as with grooves for installation in supporting trunkings of 5820/.. series (see pg. 2-46).
- ✓ To install, push the pipe between the clamp jaws.

item	conf.		di	H	pcs	EAN
			mm	mm		
ČSN	5313	LB	grey	19,4	720	8595057603554
	5316	LB		21,5	1200	8595057603561
	5321	LB		27,3	1050	8595057603578
	5329	LB		35,8	660	8595057603585

MONOFLEX PP

- low mechanical resistance

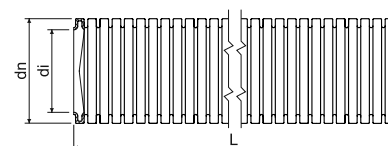


- ✓ For surface installation, into or under parget.
- ✓ Suitable for mounting into hollow walls, plaster walls and ceilings.
- ✓ Flexible self-extinguishing pipe made from PP with low content of halogen elements.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item	conf.	description		dn	di min.	L		EAN	
				mm	mm	m	m		
EN	1416EPP	F100	-	16	10,7	100	5400	8595057621749	3-20 - 3-21
		F100D	with wire			100	5400	8595568919908	
	1420PP	F100	-	20	14,1	100	4800	8595057621756	
		F100D	with wire			100	4800	8595568919915	
	1425PP	F50	-	25	18,2	50	3000	8595057621763	
		F50D	with wire			50	3000	8595568919922	
	1432PP	F50	-	32	24,2	50	1800	8595057621770	
		F50D	with wire			50	1800	8595568919939	
	1440PP	F25	-	40	32,4	25	800	8595057621787	
	1450PP	F25	-	50	41,2	25	700	8595057621794	

SUPER MONOFLEX HFPP

- medium mechanical resistance



- ✓ Flexible halogen-free self-extinguishing pipe made from PP.
- ✓ For installation on the surface, in plaster, under plaster or into concrete.
- ✓ Suitable for mounting into hollow walls, plaster walls and ceilings.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).
- ✓ Halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.

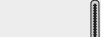
item	conf.	description		dn	di min.	L		EAN	
				mm	mm	m	m		
EN	1216EHFPP	L100	-	16	10,7	100	6600	8595057621800	3-20 - 3-21
		K100	-			100	6000	8595568905352	
	1220HFPP	K100D	with wire	20	14,1	100	6000	8595568905314	
		L100	-			100	6000	8595057621817	
	1225HFPP	L100	-	25	18,2	100	3600	8595057621824	
		L100D	with wire			100	3600	8595057699090	
	1232HFPP	K50	-	32	24,2	50	1800	8595568905369	
		K50D	with wire			50	1800	8595568905376	
		L50	-			50	1800	8595057621831	
	1240HFPP	L25	-	40	32,4	25	1075	8595057699359	
		L50	-			50	1600	8595057621848	
	1250HFPP	L25	-	50	41,2	25	800	8595057621855	
		L50	-			50	800	8595057697881	

APAFS, APACS

- low mechanical resistance



PA


 stable mounting: -40- +120°C
 flexible mounting: -5 - +120°C


A1 - F



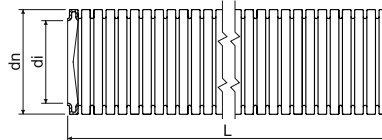
30 sec.



320 N/5 cm



242440*



✓ Flexible UV stable halogenless self-extinguishing pipe made from PA 6.

✓ Halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.

* electrical properties - undeclared



item		conf.		dn	di min.	L	EAN
				mm	mm	m	
EN	APAFS16	F50	black	15,8	11,8	50	8595057656321
	APAFS21	F50		21,2	16,5	50	8595057662179
	APAFS28	F50		28,5	22,6	50	8595057667266
	APAFS34	F50		34,5	28,8	50	8595057658196
	APACS42	F25		42,5	35,2	25	8595057667273
	APACS54	F25		54,5	46,5	25	8595057651517
	APACS80	F10		79,3	67,3	10	8595057667280

Accessories for flexible pipes APAFS / APACS

✓ Adaptalok is a system of utilities allowing to terminate and fix the pipe.

✓ Utilities allow 45° and 90° tapping and direct threaded termination - M16 - M50 or PG13,5 - PG48.

✓ The pipe termination is available as for flange as well. Installation and removal is easy and quick.

✓ Utilities are equipped with removal part allowing to remove the termination easily and without breaking.

✓ Adaptalok is tested in compliance with ČSN EN 61386-24.

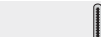
There is possible to assemble it into the space of dangerous area 2 at the environment of hazard explosion and inflammable gases and vapors.

✓ Sales from 1 pc.

✓ Combination of utilities is driven by outside diameter of used pipe.



PA


 stable mounting: -50- +120°C
 flexible mounting: -45 - +120°C


30 sec.



IP66



black



pipe dn mm												
	Adaptalok direct flange			Adaptalok 90° flange			Adaptalok 45° flange			Adaptalok termination		
	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
16	A16FL	FB	8595057625495	A16FL-90	FB	8595057625464	A16FL-45	FB	8595057625525	A-ES16	FB	8595057625815
20										A-ES20	FB	8595057625822
21	A21FL	FB	8595057625501	A21FL-90	FB	8595057625471	A21FL-45	FB	8595057625532			
28	A28FL	FB	8595057625518	A28FL-90	FB	8595057625488	A28FL-45	FB	8595057625549	A-ES28	FB	8595057625839
32										A-ES32	FB	8595057625846
40										A-ES40	FB	8595057625853
80				A80FL-90	FB	8595057667297						



material



fire reaction class of underlying material



mechanical resistance



IP protection



UV stable



accessories



temperature resistance



self-extinguishing



area with a risk of explosion



halogen-free material



color

		  			  			  		
		Adaptalok direct			Adaptalok 90°			Adaptalok 45°		
EN										
pipe dn mm		item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
16	M16x1,5	AM16/16	FB	8595057626676	AM16/16-90	FB	8595057625228	AM16/16-45	FB	8595057625341
20	M20x1,5	AM20/20	FB	8595057626133						
21	M20x1,5	AM21/20	FB	8595057626683	AM21/20-90	FB	8595057625235	AM21/20-45	FB	8595057625358
25	M25x1,5	AM25/25	FB	8595057626140						
28	M25x1,5	AM28/25	FB	8595057626690	AM28/25-90	FB	8595057625242	AM28/25-45	FB	8595057625365
34	M32x1,5	AM34/32	FB	8595057626706	AM34/32-90	FB	8595057625259	AM34/32-45	FB	8595057625372
42	M40x1,5	AM42/40	FB	8595057626713	AM42/40-90	FB	8595057625266	AM42/40-45	FB	8595057625389
54	M50x1,5	AM54/50	FB	8595057625150	AM54/50-90	FB	8595057625273	AM54/50-45	FB	8595057625396
ČSN										
16	PG13,5	APG16/13	FB	8595057625167	APG16/13-90	FB	8595057625280	APG16/13-45	FB	8595057625402
21	PG16	APG21/16	FB	8595057625174	APG21/16-90	FB	8595057625297	APG21/16-45	FB	8595057625419
28	PG21	APG28/21	FB	8595057625181	APG28/21-90	FB	8595057625303	APG28/21-45	FB	8595057625426
34	PG29	APG34/29	FB	8595057625198	APG34/29-90	FB	8595057625310	APG34/29-45	FB	8595057625433
42	PG36	APG42/36	FB	8595057625204	APG42/36-90	FB	8595057625327	APG42/36-45	FB	8595057625440
54	PG48	APG54/48	FB	8595057625211	APG54/48-90	FB	8595057625334	APG54/48-45	FB	8595057625457

		  			  			  		
		Adaptalok washer			Adaptalok nut			Dismounting part		
EN										
pipe dn		item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
mm										
16	M16x1,5	A-SW/M16	FB	8595057625686	The nut is a part of the AM adapt-lock package...			A16RT	FB	8595057625556
21	M20x1,5	A-SW/M20	FB	8595057625693				A21RT	FB	8595057625563
28	M25x1,5	A-SW/M25	FB	8595057625709				A28RT	FB	8595057625570
34	M32x1,5	A-SW/M32	FB	8595057625716				A34RT	FB	8595057625587
42	M40x1,5	A-SW/M40	FB	8595057625723				A42RT	FB	8595057625594
54	M50x1,5	A-SW/M50	FB	8595057625730				A54RT	FB	8595057625600
ČSN										
16	PG13,5	A-SW/PG13	FB	8595057625747	A-LN/PG13	FB	8595057625624	A16RT	FB	8595057625556
21	PG16	A-SW/PG16	FB	8595057625754	A-LN/PG16	FB	8595057625631	A21RT	FB	8595057625563
28	PG21	A-SW/PG21	FB	8595057625761	A-LN/PG21	FB	8595057625648	A28RT	FB	8595057625570
34	PG29	A-SW/PG29	FB	8595057625778	A-LN/PG29	FB	8595057625655	A34RT	FB	8595057625587
42	PG36	A-SW/PG36	FB	8595057625785	A-LN/PG36	FB	8595057625662	A42RT	FB	8595057625594
54	PG48	A-SW/PG48	FB	8595057625792	A-LN/PG48	FB	8595057625679	A54RT	FB	8595057625600

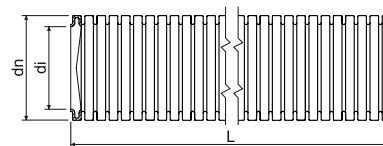
LPE-1

- low mechanical resistance



MAT				
PE	-25 - +90°C	A1	320 N/5 cm	22423

✓ Suitable for direct monolithic concreting or under the parget.

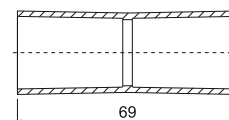


item	conf.	description		dn	di min.	L		EAN	
				mm	mm	m	m		
EN	2316E/LPE-1	A100	-	16	10,7	100	7200	8595057651197	3-20 - 3-21
		A100D	with wire			100	7200	8595057651203	
	2320/LPE-1	A100	-	20	14,1	100	4000	8595057651234	
		A100D	with wire			100	4000	8595057651241	
	2325/LPE-1	A100	-	25	18,3	100	3200	8595057651272	
		A100D	with wire			100	3200	8595057651289	
		A50	-			50	3200	8595568905406	
	2332/LPE-1	A50	-	32	24,3	50	1600	8595057657380	
		A50D	with wire			50	1600	8595057668843	
	2340/LPE-1	A25	-	40	31,2	25	1000	8595057688452	
ČSN	2316/LPE-1	H100	-	21,2	16,0	100	3600	8595057603707	3-10
	2323/LPE-1	H100	-	28,5	22,9	100	2800	8595057603714	
	2329/LPE-1	H50	-	34,5	28,4	50	2000	8595057603721	

Connectors for LPE ČSN flexible pipes

MAT		
PE	-25 - +90°C	A1

✓ Connectors are designed to join LPE pipes.



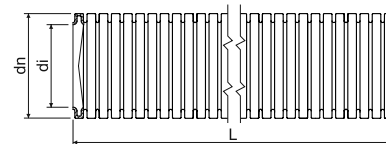
item	conf.		pipe dn		EAN
			mm	pcs	
ČSN	0216/1	XX	21,2	400	8595057603790
	0223/1	XX	28,5	300	8595057603806
	0229/1	XX	34,5	100; 200	8595057603813

LPE-2

- very low mechanical resistance



✓ Suitable for installing into prefabricated concrete elements.



item	conf.	description		dn	di min.	L		EAN	pg.
				mm	mm	m	m		
EN	2316E/LPE-2	A100	-	16	10,7	100	7200	8595057651210	3-20 - 3-21
		A100D	with wire			100	7200	8595057651227	
		F100	-			100	7200	8595568910127	
		F100D	with wire			100	7200	8595568910172	
	2320/LPE-2	A100	-	20	14,1	100	4000	8595057651258	
		A100D	with wire			100	4000	8595057651265	
		F100	-			100	4000	8595568910134	
		F100D	with wire			100	4000	8595568910189	
	2325/LPE-2	A100	-	25	18,3	100	3200	8595057651296	
		A100D	with wire			100	3200	8595057651302	
		F100	-			100	3200	8595568910141	
		F100D	with wire			100	3200	8595568910196	
	2332/LPE-2	A50	-	32	24,3	50	1600	8595057657397	
		A50D	with wire			50	1600	8595057668850	
		F50	-			50	1600	8595568910158	
		F50D	with wire			50	1600	8595568910202	
	2340/LPE-2	A25	-	40	31,2	25	1000	8595057688469	
		F25	-			25	1000	8595568910165	
ČSN	2313/LPE-2	A100	-	18,7	13,5	100	4000	8595057614857	3-10
		H100	-			100	4000	8595057603646	
		F100	-			100	4000	8595568910219	
	2316/LPE-2	A100	-	21,2	16,0	100	3600	8595057614864	
		H100	-			100	3600	8595057603653	
		F100	-			100	3600	8595568910226	
	2323/LPE-2	A100	-	28,5	22,9	100	2800	8595057614871	
		H100	-			100	2800	8595057603660	
		F100	-			100	2800	8595568910233	
	2329/LPE-2	A50	-	34,5	28,4	50	2000	8595057614888	
		H50	-			50	2000	8595057603677	
		F50	-			50	2000	8595568910240	
	2336/LPE-2	H50	-	42,2	35,9	50	1000	8595057603684	

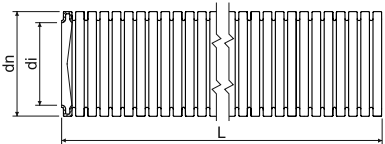
LPE-1

- UV stable, low mechanical resistance



MAT				
PE	-25 - +90°C	A1	320 N/5 cm	22423

Flexible UV stable pipe to be suitable for outside installations.



item		conf.	description		dn	di min.	L		EAN	
					mm	mm	m	m		pg.
EN	2320/LPE-1	F1.DU	with wire	black	20	14,1	100	4000	8595568902498	3-20 - 3-21
		F1.U	-				100	4000	8595568902481	
	2325/LPE-1	F1.DU	with wire		25	18,3	100	3200	8595057699366	
		F1.U	-				100	3200	8595568902504	
	2332/LPE-1	F50DU	with wire		32	24,3	50	1600	8595568902573	
		F50U	-				50	1600	8595568902566	

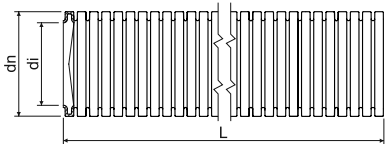
LPE-2

- UV stable, very low mechanical resistance



MAT				
PE	-25 - +90°C	A1	125 N/5 cm	11423

Flexible UV stable pipe to be suitable for outside installations.



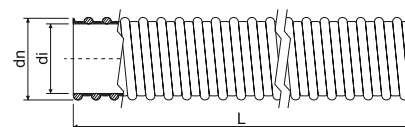
item		conf.	description		dn	di min.	L		EAN	
					mm	mm	m	m		pg.
EN	2320/LPE-2	F1.DU	with wire	black	20	14,1	100	4000	8595568902535	3-20 - 3-21
		F1.U	-				100	4000	8595568902528	
	2325/LPE-2	F1.DU	with wire		25	18,3	100	3200	8595568902559	
		F1.U	-				100	3200	8595568902542	
	2332/LPE-2	F50DU	with wire		32	24,3	50	1600	8595057699212	
		F50U	-				50	1600	8595568902580	

SPIROFLEX

- low mechanical resistance



MAT					
PVC	-5 - +60°C	A1 - F	30 sec.	320 N/5 cm	23114



- ✓ Flexible protective pipe reinforced with hard PVC spiral.
- ✓ Excels in smooth inside surface and very good strength, while the flexibility is guaranteed.
- ✓ Suitable for systems with mechanical strain and constant pressure, e.g.: industrial systems and machine equipment.

item	conf.		dn	di min.	L		EAN
			mm	mm	m	m	
SF16	K30	light grey	20,7	16	30	1440	8595057625891
SF20	K30		25,0	20	30	1080	8595057625907
SF25	K30		30,6	25	30	480	8595057625914
SF32	K30		38,0	32	30	420	8595057625921

Conduit bushing SPIROFLEX

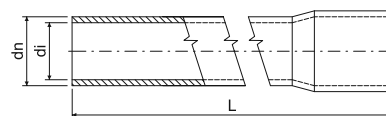


MAT				
PVC	-5 - +60°C	A1 - F	30 sec.	IP64

item	conf.		pipe di	For the type of pip		EAN
			mm		mm pcs	
SFM20	KB	light grey	16	SF16	M20x1,5 25	8595057625938
SFM25	KB		20	SF20	M25x1,5 25	8595057625945
SFM32	KB		25	SF25	M32x1,5 10	8595057625952
SFM40	KB		32	SF32	M40x1,5 10	8595057625969

Rigid wiring pipes

- low mechanical resistance



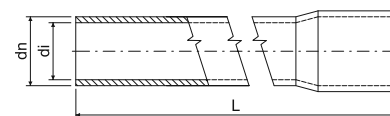
✓ Rigid socket pipes are fireproof-tested.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	1516E	HA	white	16	13,7	3	30; 3000	8595057619067	3-16 - 3-18
		KA	light grey			3	30; 3000	8595057617209	
		KC				2	20; 2000	8595057617216	
	1520	HA	white	20	17,4	3	30; 1890	8595057619074	
		KA	light grey			3	30; 1890	8595057616905	
		KC				2	20; 1260	8595057613867	
	1525	HA	white	25	22,1	3	30; 1260	8595057619081	
		KA	light grey			3	30; 1260	8595057616912	
		KC				2	20; 840	8595057616882	
	1532	HA	white	32	28,6	3	30; 750	8595057619098	
		KA	light grey			3	30; 750	8595057616929	
		KC				2	20; 500	8595057616875	
	1540	HA	white	40	36,6	3	30; 480	8595057619104	
		KA	light grey			3	30; 480	8595057616936	
		KC				2	20; 320	8595057616943	
	1550	HA	white	50	45,9	3	30; 270	8595057619111	
		KA	light grey			3	30; 270	8595057617704	
		KC				2	20; 180	8595057644946	
	1563	HA	white	63	58,4	3	15; 240	8595057657373	
		KA	light grey			3	15; 240	8595057626317	

Rigid wiring pipes

- medium mechanical resistance



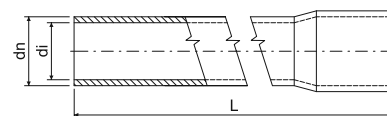
✓ Rigid socket pipes are fireproof-tested.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	4016E	KA	light grey	16	13,0	3	30; 3000	8595057689602	3-16 - 3-18
		KC				2	20; 2000	8595568903822	
		LA	dark grey			3	30; 3000	8595057617223	
		LC				2	20; 2000	8595057617230	
	4020	KA	light grey	20	16,9	3	30; 1890	8595057689954	
		KC				2	20; 1260	8595568903655	
		LA	dark grey			3	30; 1890	8595057617018	
		LC				2	20; 1260	8595057616899	
	4025	KA	light grey	25	21,4	3	30; 1260	8595057689930	
		KC				2	20; 840	8595568902955	
		LA	dark grey			3	30; 1260	8595057616981	
		LC				2	20; 840	8595057616950	
	4032	KA	light grey	32	28,0	3	30; 750	8595057690011	
		KC				2	20; 500	8595568902962	
		LA	dark grey			3	30; 750	8595057617001	
		LC				2	20; 500	8595057616967	
	4040	KA	light grey	40	35,8	3	30; 480	8595057689961	
		KC				2	20; 320	8595568902979	
		LA	dark grey			3	30; 480	8595057616998	
		LC				2	20; 320	8595057616974	
	4050	KA	light grey	50	45,0	3	30; 270	8595057690394	
		KC				2	20; 180	8595568902986	
		LA				3	30; 270	8595057617728	
	4063	KA	light grey	63	57,4	3	15; 240	8595057696402	
		KC				2	10; 160	8595568902993	
		LA				3	15; 240	8595057626324	

Rigid wiring pipes

- high mechanical resistance

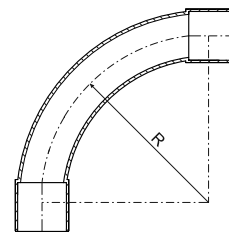
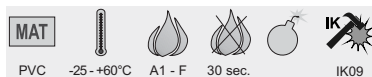


✓ Rigid socket pipes are fireproof-tested.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	8016E	FA	black	16	12,2	3	30; 3000	8595057617247	3-16 - 3-18
		FC				2	20; 2000	8595057617254	
	8020	FA		20	15,8	3	30; 1890	8595057617087	
		FC				2	20; 1260	8595057617025	
	8025	FA		25	20,6	3	30; 1260	8595057617070	
		FC				2	20; 840	8595057617032	
	8032	FA		32	27,0	3	30; 750	8595057617063	
		FC				2	20; 500	8595057617100	
	8040	FA		40	35,0	3	30; 480	8595057617056	
		FC				2	20; 320	8595057617049	
8050		FA		50	44,1	3	30; 270	8595057617711	
8063		FA		63	55,4	3	15; 240	8595057626331	

Elbows for EN pipes



✓ The elbows with double-sided necks are intended for 90° bends.

✓ Bending radius ensures smooth transition and allows easy retraction of wires and cables.

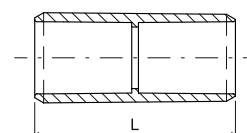
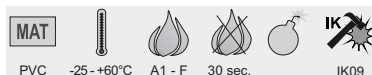
✓ Rigid and flexible pipes can be connected using accessories for rigid pipe.

✓ If a bend other than 90° is required, it is possible to replace the elbow with a flexible pipe and connecting parts.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

pipe dn	item	conf.		R		EAN	pipe dn	item	conf.		R		EAN
mm				mm	pcs		mm				mm	pcs	
16	4116	FB	black	55	10; 480	8595057617735	32	4132	FB	black	110	10; 60	8595057617322
		HB	white		10; 480	8595057643888			HB	white		10; 60	8595057643918
		KB	light grey		10; 480	8595057617834			KB	light grey		10; 60	8595057617346
		LB	dark grey		10; 480	8595057617780			LB	dark grey		10; 60	8595057617339
20	4120	FB	black	70	10; 240	8595057617742	40	4140	FB	black	135	5; 35	8595057617773
		HB	white		10; 240	8595057643895			HB	white		5; 35	8595057650657
		KB	light grey		10; 240	8595057617841			KB	light grey		5; 35	8595057617865
		LB	dark grey		10; 240	8595057617797			LB	dark grey		5; 35	8595057617810
25	4125	FB	black	85	10; 140	8595057617759	50	4150	FB	black	170	5; 30	8595057617766
		HB	white		10; 140	8595057643901			HB	white		5; 30	8595057668874
		KB	light grey		10; 140	8595057617858			KB	light grey		5; 30	8595057617872
		LB	dark grey		10; 140	8595057617803			LB	dark grey		5; 30	8595057617827

Connectors for EN pipes



- ✓ Rigid and flexible pipes can be connected using accessories for rigid pipe.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

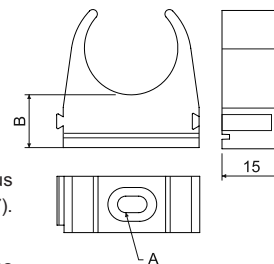


pipe dn mm	item	conf.		L mm	 pcs	EAN
16	0216E	FB	black	45	10; 1300	8595057618060
		HB	white		10; 1300	8595057643925
		KB	light grey		10; 1300	8595057618183
		LB	dark grey		10; 1300	8595057618121
20	0220	FB	black	50	10; 800	8595057618077
		HB	white		10; 800	8595057643932
		KB	light grey		10; 800	8595057618190
		LB	dark grey		10; 800	8595057618138
25	0225	FB	black	60	10; 480	8595057618084
		HB	white		10; 480	8595057643949
		KB	light grey		10; 480	8595057618206
		LB	dark grey		10; 480	8595057618145
32	0232	FB	black	70	10; 260	8595057618091
		HB	white		10; 260	8595057643956
		KB	light grey		10; 260	8595057618213
		LB	dark grey		10; 260	8595057618152
40	0240	FB	black	80	10; 120	8595057618107
		HB	white		10; 120	8595057643963
		KB	light grey		10; 120	8595057618220
		LB	dark grey		10; 120	8595057618169
50	0250	FB	black	88	10; 210	8595057618176
		HB	white		10; 210	8595057657359
		KB	light grey		10; 180	8595057618114
		LB	dark grey		10; 210	8595057618237
63	0263	FB	black	105	2; 50	8595057625884
		HB	white		2; 50	8595057657366
		KB	light grey		2; 44	8595057625860
		LB	dark grey		2; 50	8595057625877

Clamps for EN pipes

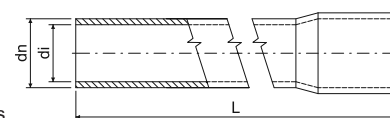


- ✓ The clamps are intended to fix the pipes to the underlying material.
- ✓ Pipes are installed by pushing between the clamp jaws.
- ✓ The clamps are equipped with elements for placing next to each other to create a continuous series of tubes, and also grooves for installation in supporting trunkings of 5820/ .. (see page 2-67).
- ✓ The connection can be made for clamps of different sizes.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).



pipe dn mm	item	conf.		A mm	B mm	 pcs	EAN
16	5316E	FB	black	4,3x6,5	12	10; 920	8595057619340
		HB	white			10; 920	8595057643833
		KB	light grey			10; 920	8595057619357
		LB	dark grey			10; 920	8595057619364
20	5320	FB	black	4,3x6,5	12	10; 720	8595057618015
		HB	white			10; 720	8595057643840
		KB	light grey			10; 720	8595057617896
		LB	dark grey			10; 720	8595057617957
25	5325	FB	black	4,3x6,5	12	10; 1200	8595057618022
		HB	white			10; 1200	8595057643857
		KB	light grey			10; 1200	8595057617902
		LB	dark grey			10; 1200	8595057617964
32	5332	FB	black	5x10	14	10; 740	8595057618039
		HB	white			10; 740	8595057643864
		KB	light grey			10; 740	8595057617919
		LB	dark grey			10; 740	8595057617971
40	5340	FB	black	5x10	14	10; 400	8595057618046
		HB	white			10; 400	8595057643871
		KB	light grey			10; 400	8595057617926
		LB	dark grey			10; 400	8595057617988
50	5350	FB	black	6,6x10,2	14	10; 350	8595057618053
		HB	white			10; 420	8595057657045
		KB	light grey			10; 350	8595057617933
		LB	dark grey			10; 350	8595057617995
63	5363	FB	black	6,6x10,2	14	10; 240	8595057657496
		HB	white			10; 300	8595057657502
		KB	light grey			10; 240	8595057657519
		LB	dark grey			10; 240	8595057657526

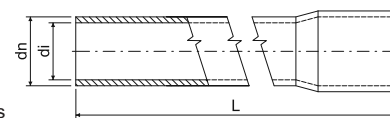
Halogen-free rigid wiring pipes - low mechanical resistance



- ✓ Halogen-free rigid necked pipe suitable for distribution systems in apartments and industrial environments.
- ✓ Halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).
- ✓ The pipes are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).
- ✓ **The black pipes are UV-stabilized.**

item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	1516EHF	FA	black	16	13,1	3	30; 3000	8595057626423	3-20 - 3-21
		KA	light grey			3	30; 3000	8595057631854	
	1520HF	FA	black	20	17,1	3	30; 1890	8595057626430	
		KA	light grey			3	30; 1890	8595057631861	
	1525HF	FA	black	25	21,6	3	30; 1260	8595057626966	
		KA	light grey			3	30; 1260	8595057631878	
	1532HF	FA	black	32	28,4	3	30; 750	8595057626973	
		KA	light grey			3	30; 750	8595057631885	
	1540HF	FA	black	40	36,0	3	30; 480	8595057626447	
		KA	light grey			3	30; 480	8595057631892	
	1550HF	FA	black	50	45,6	3	30; 270	8595057626454	
		KA	light grey			3	30; 270	8595057631908	
	1563HF	FA	black	63	58,4	3	15; 240	8595057631489	
		KA	light grey			3	15; 240	8595057631915	

Halogen-free rigid wiring pipes - medium mechanical resistance



- ✓ Halogen-free rigid necked pipe suitable for distribution systems in apartments and industrial environments.
- ✓ Halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- ✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).
- ✓ **The black pipes are UV-stabilized.**

item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	4016EHF	FA	black	16	12,7	3	30; 3000	8595057688254	3-20 - 3-21
		KA	light grey			3	30; 3000	8595057690868	
	4020HF	FA	black	20	16,7	3	30; 1890	8595057688261	
		KA	light grey			3	30; 1890	8595057690875	
	4025HF	FA	black	25	21,0	3	30; 1260	8595057688278	
		KA	light grey			3	30; 1260	8595057690882	
	4032HF	FA	black	32	28,0	3	30; 750	8595057688285	
		KA	light grey			3	30; 750	8595057690899	
	4040HF	FA	black	40	35,4	3	30; 480	8595057688292	
		KA	light grey			3	30; 480	8595057690905	
	4050HF	FA	black	50	45,2	3	30; 270	8595057688308	
		KA	light grey			3	30; 270	8595057690912	
	4063HF	FA	black	63	57,8	3	15; 240	8595057688315	
		KA	light grey			3	15; 240	8595057690929	

Halogen-free rigid wiring pipes - high mechanical resistance

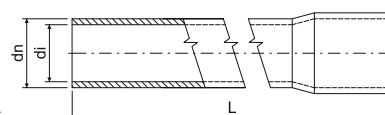


✓ Halogen-free rigid necked pipe suitable for distribution systems in apartments and industrial environments.

✓ Halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

✓ The black pipes are UV-stabilized.



item		conf.		dn	di min.	L		EAN	
				mm	mm	m	m		pg.
EN	8016EHF	FA	black	16	11,7	3	30; 3000	8595057688322	3-20 - 3-21
	8020HF	FA		20	15,7	3	30; 1890	8595057688339	
	8025HF	FA		25	20,2	3	30; 1260	8595057688346	
	8032HF	FA		32	27,0	3	30; 750	8595057688353	
	8040HF	FA		40	34,8	3	30; 480	8595057688360	
	8050HF	FA		50	44,2	3	30; 270	8595057688377	
	8063HF	FA		63	56,8	3	15; 240	8595057688384	

Elbows for halogen-free EN pipes



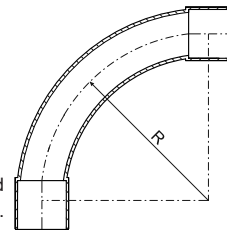
✓ The elbows with double-sided necks are intended for 90° bends.

✓ Bending radius ensures smooth transition and allows easy retraction of wires and cables.

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

✓ The elbows are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

✓ Elbows in black are UV stable.



pipe dn mm	item	conf.		R		EAN
				mm	pcs	
16	4116HF	FB	black	55	10; 480	8595057626461
		KB	light grey		10; 480	8595057629288
20	4120HF	FB	black	70	10; 240	8595057626478
		KB	light grey		10; 240	8595057629295
25	4125HF	FB	black	85	10; 140	8595057626256
		KB	light grey		10; 120	8595057629301
32	4132HF	FB	black	110	10; 60	8595057626263
		KB	light grey		10; 60	8595057629318
40	4140HF	FB	black	135	5; 35	8595057626485
		KB	light grey		5; 35	8595057651166
50	4150HF	FB	black	170	5; 30	8595057626492
		KB	light grey		5; 30	8595057699281



material



self-snuffing



area with a risk of explosion



halogen-free material



package



temperature resistance



mechanical resistance



functionality during a fire



UV stable



accessories



fire reaction class of underlying material



classification code according to 61386-1

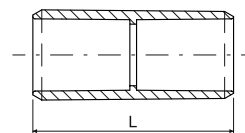


mechanical protection



color

Connectors for halogen-free EN pipes



✓ Connectors are designed to join pipes. Socketing of pipes and elbows reduces the consumption of connectors when making rigid pipe installations.

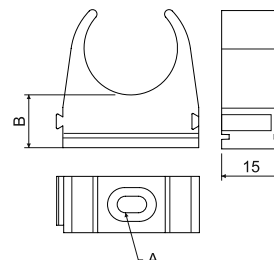
✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

✓ **Connectors in black are UV stable.**



pipe dn mm	item	conf.		L mm	 pcs	EAN
16	0216HF	FB	black	45	10; 1320	8595057626508
		KB	light grey		10; 1300	8595057631922
20	0220HF	FB	black	50	10; 840	8595057626515
		KB	light grey		10; 800	8595057631939
25	0225HF	FB	black	60	10; 480	8595057626270
		KB	light grey		10; 480	8595057631946
32	0232HF	FB	black	70	10; 260	8595057626287
		KB	light grey		10; 260	8595057631953
40	0240HF	FB	black	80	10; 120	8595057626522
		KB	light grey		10; 120	8595057631960
50	0250HF	FB	black	88	10; 180	8595057626539
		KB	light grey		10; 180	8595057631977
63	0263HF	FB	black	105	2; 50	8595057629356
		KB	light grey		2; 50	8595057631984

Clamps for halogen-free EN pipes



✓ The clamps are intended to fix the pipes to the underlying material.

✓ Pipes are installed by pushing between the clamp jaws.

✓ The clamps are equipped with elements for placing next to each other to create a continuous series of tubes, and also grooves for installation in supporting trunkings of 5820/ .. (see page 2-67).

✓ It is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22).

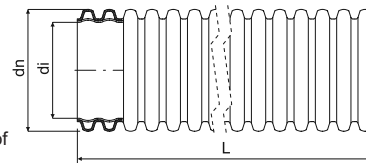
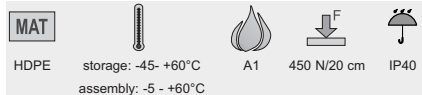
✓ **Clamps in black are UV stable.**



pipe dn mm	item	conf.		A mm	B mm	 pcs	EAN
16	5316EHF	FB	black	4,4x6,4	12,4	10; 920	8595057626546
		KB	light grey			10; 920	8595057631809
20	5320HF	FB	black	4,4x8	12,4	10; 720	8595057626553
		KB	light grey			10; 1900	8595057631816
25	5325HF	FB	black	4,4x8	14	10; 1280	8595057626294
		KB	light grey			10; 1280	8595057631823
32	5332HF	FB	black	5,4x10	14	10; 840	8595057626300
		KB	light grey			10; 740	8595057631830
40	5340HF	FB	black	5,4x10	14	10; 520	8595057626560
		KB	light grey			10; 520	8595057631847
50	5350HF	FB	black	6,6x10,2	14	10; 420	8595057626577
		KB	light grey			10; 420	8595057632769
63	5363HF	FB	black	6,6x10,2	14	10; 240	8595057688759
		KB	light grey			10; 240	8595057688742

KOPOFLEX®

- flexible doublecoat corrugated pipe



- ✓ Halogen-free flexible double-coated pipe designed for mechanical protection of all kinds of power and data wiring.
- ✓ The pipes are made in compliance with ČSN EN 61386-24.
- ✓ Each coil is equipped with a pull-through string or wire that ensures easy cable insertion and a coupling on one end.
- ✓ When using a sealing ring, the protection class is IP 67.
- ✓ In case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS.

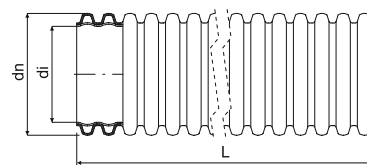
item	conf.		dn	di		L			in stock	EAN	
			mm	mm	mm	m	m	cm			pg.
KF 09040	AA	orange	40	32	230	50	3000	65 x 30	 - min. 1000 m	8595057619425	3-24
	BA	red				50	3000			8595057606333	
	BB					25	3000			8595568917423	
	CA	blue				50	3000			8595057615625	
	CB					25	3000	50 x 25		8595057621107	
	DA	green				50	3000	65 x 30	 - min. 1000 m	8595057619432	
	EA	yellow				50	3000		 - min. 1000 m	8595057608641	
	FA	black				50	3000			8595057616226	
KF 09050	AA	orange	50	41	350	50	1800		80 x 35	 - min. 1000 m	
	BA	red				50	1800			8595057606340	
	BB					25	1575			8595568917430	
	CA	blue				50	1800			8595057655935	
	CB					25	1575	70 x 25		8595057655928	
	DA	green				50	1800	80 x 35	 - min. 1000 m	8595057697270	
	EA	yellow				50	1800		 - min. 1000 m	8595057606357	
	FA	black				50	1800			8595057616233	
KF 09063	AA	orange	63	52	350	50	-		95 x 35	 - min. 1000 m	
	BA	red				50	-			8595057643703	
	CA	blue				50	-			8595057644977	
	CB					25	-	85 x 30	 - min. 1000 m	8595057644984	
	DA	green				50	-	95 x 35	 - min. 1000 m	8595568915221	
	EA	yellow				50	-		 - min. 1000 m	8595057668911	
	FA	black				50	-			8595057650527	
KF 09075	BA	red	75	61	350	50	-	110 x 40		8595057643710	
	CA	blue				50	-			8595057644991	
	CB					25	-	90 x 35		8595057645004	
	DA	green				50	-	110 x 40	 - min. 1000 m	8595057684027	
	EA	yellow				50	-			8595057651449	
	FA	black				50	-			8595057650534	
	KF 09090	AA				orange	90	75	400	50	
BA		red	50	-		8595057643727					
CA		blue	50	-		8595057650435					
FA		black	50	-		8595057650442					
KF 09110	AA	orange	110	94	400	50	-	120 x 65	 - min. 1000 m	8595057619234	
	BA	red				50	-			8595057606364	
	BB					25	-	105 x 50		8595057692824	
	CA	blue				50	-	120 x 65		8595057615649	
	CB					25	-	105 x 50		8595057655911	
	DA	green				50	-	120 x 65	 - min. 1000 m	8595568915184	
	EA	yellow				50	-		 - min. 1000 m	8595057651456	
	FA	black				50	-			8595057616240	
KF 09125	BA	red	125	108	500	50	-	160 x 60		8595057618336	
KF 09160	BA	red	160	136	650	50	-	160 x 80		8595057643741	
	BB					25	-	160 x 45		8595057647800	
	CA	blue				50	-	160 x 80		8595057647787	
	CB					25	-	160 x 45		8595057647794	
	FA	black				50	-	160 x 80		8595057650565	
KF 09200	BB	red	200	176	850	25	-	170 x 70		8595568903587	
	FB	black				25	-			8595057688568	

KOPOFLEX®

- UV-stabilized flexible doublecoat corrugated pipe



MAT				
HDPE	storage: -45- +60°C assembly: -5 - +60°C	A1	450 N/20 cm	IP40



- ✓ Halogen-free UV stable flexible double-coated pipe designed for mechanical protection of all kinds of power and data wiring.
- ✓ The pipes are made in compliance with ČSN EN 61386-24.
- ✓ Each coil is equipped with a pull-through string or wire that ensures easy cable insertion and a coupling on one end.
- ✓ When using a sealing ring, the protection class is IP 67.
- ✓ In case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS.

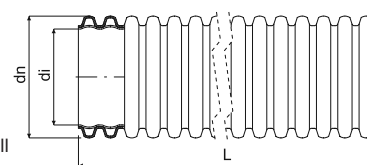
item	conf.		dn	di		L			in stock	EAN	
			mm	mm							
KF 09040	UVBA	red	40	32	230	50	3000	65 x 30	⌚ - min. 1000 m	8595057698154	pg.
	UVCA	blue				50			⌚ - min. 1000 m	8595057698161	
	UVFA	black				50			●	8595057698147	
KF 09050	UVBA	red	50	41	350	50	1800	80 x 35	⌚ - min. 1000 m	8595057698185	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698192	
	UVFA	black				50			●	8595057698178	
KF 09063	UVBA	red	63	52	350	50	-	95 x 35	⌚ - min. 1000 m	8595057698215	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698222	
	UVFA	black				50			●	8595057698208	
KF 09075	UVBA	red	75	61	350	50	-	110 x 40	⌚ - min. 1000 m	8595057698345	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698352	
	UVFA	black				50			●	8595057698338	
KF 09090	UVBA	red	90	75	400	50	-	120 x 45	⌚ - min. 1000 m	8595057698246	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698253	
	UVFA	black				50			●	8595057698239	
KF 09110	UVBA	red	110	94	400	50	-	120 x 65	⌚ - min. 1000 m	8595057698277	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698284	
	UVFA	black				50			●	8595057698260	
KF 09160	UVBA	red	160	136	650	50	-	160 x 80	⌚ - min. 1000 m	8595057698376	
	UVCA	blue				50			⌚ - min. 1000 m	8595057698383	
	UVFA	black				50			⌚ - min. 1000 m	8595057698369	

KOPOFLEX®

- halogen-free self-snuffing flexible double-coated pipe



MAT					
HDPE	storage: -45- +60°C assembly: -5 - +60°C	A1 - F	30 sec.	450 N/20 cm	IP40



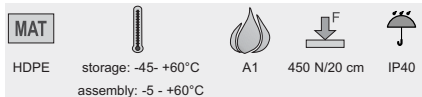
- ✓ Flexible double-coated self-snuffing pipe designed for mechanical protection of all kinds of power and data wiring.
- ✓ Fire spread test according to ČSN EN 61386-1.



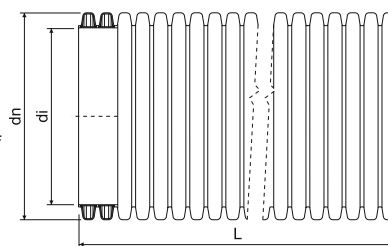
item	conf.		dn	di		L		in stock	EAN
			mm	mm					
KF 09110	SKA	light grey	110	94	400	50	120 x 65	⌚ - min. 1000 m	8595568921192

KOPODUR®

- rigid doublecoat corrugated pipe



- ✓ Halogen-free rigid double-coated pipe designed for mechanical protection of all kinds of power and data wiring.
- ✓ The pipes are made in compliance with ČSN EN 61386-24.
- ✓ The pipe is available in form of a bar, the coupling is put on one end of it.
- ✓ The connection is sealed dust/sand resistant.
- ✓ When using a sealing ring, the protection class is IP 67.
- ✓ In case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS.



item	conf.		dn	di	L			in stock	EAN
			mm	mm	m				
KD 09040	BC	red	40	32	6	432	45 x 45 x 605	☎ - min. 1000 m	8595057643758
KD 09050	BC	red	50	41	6	360	82 x 66 x 605	☎ - min. 1000 m	8595057643765
	CC	blue			6	360		☎ - min. 1000 m	8595057650459
	FC	black			6	360		☎ - min. 1000 m	8595057689404
KD 09063	BC	red	63	52	6	312	80 x 52 x 605	●	8595057643772
KD 09075	BC	red	75	61	6	312	104 x 88 x 607	●	8595057643789
	CC	blue			6	312		●	8595057650121
KD 09090	BC	red	90	75	6	312	120 x 76 x 607	☎ - min. 1000 m	8595057643796
	CC	blue			6	312		☎ - min. 1000 m	8595057651401
	FC	black			6	312		☎ - min. 1000 m	8595057683853
KD 09110	BC	red	110	94	6	462	112 x 95 x 610	●	8595057606449
	CC	blue			6	216	77 x 64 x 610	●	8595057655942
	FC	black			6	216		☎ - min. 1000 m	8595057656451
KD 09125	BA	red	125	108	6	288	120 x 72 x 610	☎ - min. 1000 m	8595057619876
	BC	red			6	306		☎ - min. 1000 m	8595057618299
	CC	blue			6	288		☎ - min. 1000 m	8595057688049
KD 09160	BC	red	160	136	6	198	120 x 72 x 610	●	8595057643819
	CC	blue			6	198		●	8595057647848
	FC	black			6	198		☎	8595057651418
KD 09200	BC	red	200	176	6	120	122 x 74 x 615	●	8595057618312

Accessories for corrugated pipes KOPOFLEX® and KOPODUR®



Couplings - slip-over couplings are the same for both types of pipes and are used to join the pipes.

Sealing rings - the same for both types of pipes and are used to seal the joint to prevent it against humidity and water.

Closing plugs - for blinding of backup lines and for temporary blinding of pipes when installing.

Distance spacers - for position fixation of several pipes in one excavation.

Distance spacers are for fixation 8 pipes and spacer can be split for fixation 2, 4 and 6 pipes. Per order only.

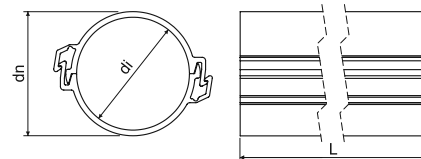
pipe dn mm												
	Couplings			Sealing rings			Closing plugs			Distance spacers		
	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
40	02040	FA	8595057612082	16040	FB	8595057606609	17040	BB	8595057606661			
50	02050	FA	8595057613249	16050	FB	8595057606616	17050	BB	8595057606678	07050/8	FB	8595057615113
63	02063	FA	8595057650466	16063	FB	8595057606623	17063	BB	8595057606685	07063/8	FB	8595057626225
75	02075	FA	8595057650473	16075	FB	8595057606630	17075	BB	8595057606692	07075/8	FB	8595057622111
90	02090	FA	8595057650480	16090	FB	8595057609167	17090	BB	8595057609204	07090/8	FB	8595057658035
110	02110	FA	8595057612075	16110	FB	8595057606647	17110	BB	8595057606708	07110/8	FB	8595057610538
125	02125	FB	8595057699946				17125	BB	8595057606715	07125/8	FB	8595057635036
160	02160	FA	8595057650497				17160	BB	8595057609228	07160/8	FB	8595057635050
200	02200	FB	8595057617438				17200	BB	8595057610798	07200/8	FB	8595057658059

KOPOHALF®

- divided cable duct



MAT					
HDPE	storage: -45- +75°C assembly: -5 - +75°C	A1	06110/2 - 450 N/20 cm 06160/2 - 750 N/20 cm	IP30	



- ✓ A system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines.
- ✓ Another possible application is a protection of already installed underground cables.
- ✓ The protectors consist of two identical parts.
- ✓ When installing, the cables are put in the bottom part and then the top part is snapped to the bottom one.
- ✓ Connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm.
- ✓ The divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24.

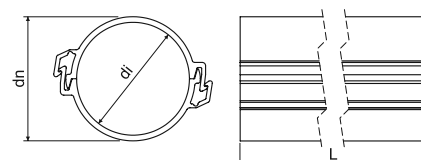
item	conf.	description		dn	di min.	L		EAN
				mm	mm	m	m	
06110/2	BA	in distributed position	red	110	97	3	162	8595057651814
	BAD	interlocked	red			3	105	8595057693371
	CA	in distributed position	blue			3	162	8595057651821
	CAD	interlocked	blue			3	105	8595057693388
	EA	in distributed position	yellow			3	162	8595057695924
	FA	in distributed position	black			3	162	8595057688506
06160/2	BA	in distributed position	red	160	136	3	72	8595057651791
	BAD	interlocked	red			3	45	8595057693395
	CA	in distributed position	blue			3	72	8595057651807
	CAD	interlocked	blue			3	45	8595057693401
	EA	in distributed position	yellow			3	72	8595057695931

KOPOHALF®

- divided cable duct



MAT					
PVC	storage: -25- +60°C assembly: -15 - +60°C	A1 - F	30 sec. 750 N/20 cm	IP30	



- ✓ A system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines.
- ✓ Another possible application is a protection of already installed underground cables.
- ✓ The protectors consist of two identical parts.
- ✓ When installing, the cables are put in the bottom part and then the top part is snapped to the bottom one.
- ✓ Connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm.
- ✓ The divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24.

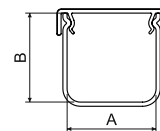
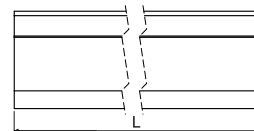
item	conf.	description		dn	di min.	L		EAN
				mm	mm	m	m	
06110P/2	BA	in distributed position	red	110	97	3	162	8595568922007
	BAD	interlocked	red			3	105	8595568922014
	CA	in distributed position	blue			3	162	8595568922021
	CAD	interlocked	blue			3	105	8595568922038

KOPOKAN

- earthen channel

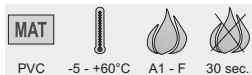


- ☑ Earthen channels are intended for mechanical protection of installation of engineering networks to be loaded under ground.
- ☑ By its technical parameters those fully replace the earlier used concrete channels.
- ☑ There is possible to use them for additional protection already installed earthen engineering networks.
- ☑ Floor trunkings are supplied with a colour lid.
- ☑ Connected using connectors and folding the lid over, thus interconnecting the individual parts.
- ☑ Strength limit on compression tested on length 300 mm.
- ☑ Earthen channels are manufactured according to ČSN EN 61386-1 and ČSN EN 61386-24.

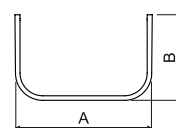
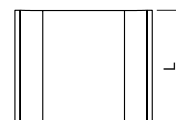


item	conf.		A	B	L			EAN
			mm	mm	m	m	kPa	
KOPOKAN 1	CD	grey body / blue lid	100	100	2	140	483	8595568915474
	ZD	grey body / red lid			2	140		8595568905116
KOPOKAN 2	ZD	grey body / red lid	120	100	2	162	223	8595568905123
KOPOKAN 3	ZD	grey body / red lid	130	140	2	224	295	8595568905130
KOPOKAN 4	CD	grey body / blue lid	200	125	2	70	204	8595568922205
	ZD	grey body / red lid			2	70		8595568905147

connection for KOPOKAN

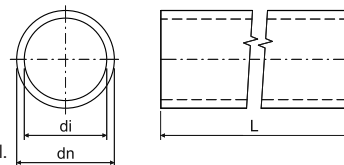
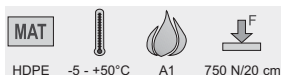
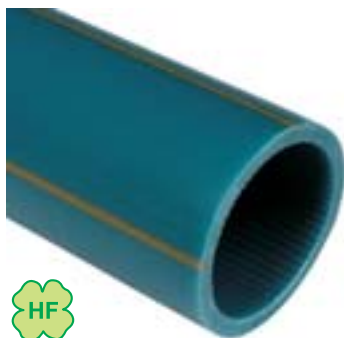


- ☑ Connector is used to connect the ground channels.
- ☑ It provides a straight direction.



item	conf.	description	A	B	L		EAN
			mm	mm	m	pcs	
SPOJKA K1	ZB	for channel KOPOKAN 1	120	80	100	1; 50	8595568905154
SPOJKA K2	ZB	for channel KOPOKAN 2	135	80	100	1; 50	8595568905161
SPOJKA K3	ZB	for channel KOPOKAN 3	151	80	100	1; 50	8595568905178
SPOJKA K4	ZB	for channel KOPOKAN 4	221	80	120	1; 35	8595568905185

Optical cable protectors HDPE



- ✓ Single-coated pipes designed to protect optical cables.
- ✓ Cable protectors there is possible to deliver with inner wall to be lubricated by mineral oil.
- ✓ For larger volumes different color versions (beyond presented versions), labeling, number of differential stripes, denticular inner surface or inner diameter size (material thickness) can be ordered based on customer needs and specifications.
- ✓ Shock resistance: N (normal, ČSN EN 61386-24)
- ✓ Bend resistance: flexible
- ✓ The protectors are tested under pressure of 1,5 MPa for the time of 1 hour.
- ✓ The packaging on wooden drums and pallets for unwinding drums is delivered just upon previous order according to the customers's specification.

item	conf.	description		dn	di	L		in stock	EAN	
				mm	mm	m	mm			pg.
06025	FS100	harness	black	25	20	100	400	 - min. 3000 m	8595568903730	
	KS100		light grey					 - min. 3000 m	8595568903860	
06032	AB	drum	orange	32	26 / 27	1750	400	 - min. 3000 m	8595057657311	
	AS100	harness				100			8595057657328	
	BB	drum	1750			 - min. 3000 m		8595057656383		
	BS100	harness	100					8595057656390		
	CB	drum	1750			 - min. 3000 m		8595057657441		
	EB	drum	1750			 - min. 3000 m		8595057656406		
	ES100	harness	100			 - min. 3000 m		8595057656413		
	FB	drum	1750			 - min. 3000 m		8595568915573		
	FS100	harness	100					8595057665552		
	LS100	harness	dark grey			100			8595057665569	
06040	AB	drum	orange	40	33 / 34 / 35	1750	400	 - min. 1750 m	8595057655393	3-28 - 3-29
	AP	harness - pallet				2000		 - min. 1750 m	8595057658226	
	AS100	harness				100			8595057655409	
	AS300					300		 - min. 1750 m	8595568919540	
	BB	drum	1750			 - min. 1750 m		8595057655416		
	BS100	harness	100					8595057655423		
	BS300		300			 - min. 1750 m		8595568903303		
	CB	drum	1750			 - min. 1750 m		8595057655430		
	CP	harness - pallet	2000			 - min. 1750 m		8595057696242		
	CS100	harness	100					8595057655447		
	CS300		300			 - min. 1750 m		8595568903457		
	DB	drum	1750			 - min. 1750 m		8595057655454		
	DS100	harness	100			 - min. 1750 m		8595057655461		
	DS300		300			 - min. 1750 m		8595568903297		
	EB	drum	1750			 - min. 1750 m		8595057655478		
	ES100	harness	100			 - min. 1750 m		8595057655485		
	ES300		300			 - min. 1750 m		8595568903716		
	FB	drum	1750			 - min. 1750 m		8595057655492		
	FP	harness - pallet	2000			 - min. 1750 m		8595057665637		
	FS100	harness	100					8595057655508		
	KB	drum	1750			 - min. 1750 m		8595057655539		
	KS100	harness	100					8595057655546		
	KS300		300			 - min. 1750 m		8595568903440		
	LB	drum	1750			 - min. 1750 m		8595057655553		
	LS100	harness	100			 - min. 1750 m		8595057655560		
	LS300		300			 - min. 1750 m		8595568903433		
06050	AB	drum	orange	50	41 / 44	1250	500	 - min. 2500 m	8595057657298	
	AS100	harness				100		 - min. 2500 m	8595057657304	
	BS100	harness	100					8595057699540		
	CB	drum	1250			 - min. 2500 m		8595057689978		
	CP	harness - pallet	1250			 - min. 2500 m		8595057689411		
	CS100	harness	100			 - min. 2500 m		8595057691070		
	FB	drum	1250			 - min. 2500 m		8595568912558		
	FP	harness - pallet	1250			 - min. 2500 m		8595057698475		
	FS100	harness	100					8595057665576		
	KS100	harness	100			 - min. 2500 m		8595057689923		
	LS100	harness	100			 - min. 2500 m		8595057665583		

Screw connectors for optical cable protectors



MAT

PP

-5 - +50°C

A1

- ✓ The connector is designed to join HDPE optic cable protector when routing and ensures a perfect connection.
- ✓ PN16 pressure line.

item	conf.		pipe dn		EAN
			mm	pcs	
05025	KB	grey	25	1	8595568905451
05030	KB		32	1	8595057657335
05040	KB		40	1	8595057606821
05050	KB		50	1	8595057651579

Push connectors for optical cable protectors



MAT

PP

-5 - +50°C

A1

- ✓ The connector is designed to join HDPE optic cable protector when routing and ensures a perfect connection.
- ✓ The pipe is pushed onto the connector.
- ✓ PN16 pressure line.

item	conf.		pipe dn		EAN
			mm	pcs	
05033	KB	grey	32	1	8595057657694
05043	KB		40	1	8595057657700
05053	KB		50	1	8595057657717

Fittings for optical cable protectors



- ✓ The fitting is used to end the routing.
- ✓ PN16 pressure line.

item	conf.		pipe dn		EAN
			mm	pcs	
05024	KB	grey	25	1	8595568905468
05031	KB		32	1	8595057657342
05041	KB		40	1	8595057629271
05051	KB		50	1	8595057651586

Vented fittings for optical cable protectors

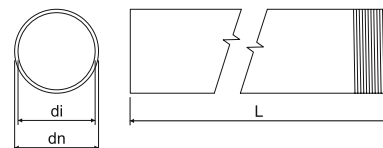


- ✓ Vented fitting is used to check the installed lines using compressed air.
- ✓ PN16 pressure line.

item	conf.		pipe dn		EAN
			mm	pcs	
05032	KB	black	32	1	8595057667181
05042	KB		40	1	8595057635319

ČSN steel threaded pipes

- high mechanical resistance



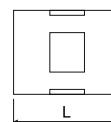
- ✓ The pipes are suitable for mechanical protection of conductors and cables.
- ✓ Threaded conduits are supplied with one coupler.
- ✓ While using pipes along with bushing 4813/P - 4842/P and 4913 - 4942 is scope of application only -5 - +60 °C.
- ✓ Unvarnished: without surface finish, without corrosion resistance, suitable mostly for construction purposes
- ✓ ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- ✓ Varnished: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4
- ✓ The pipes are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

item	conf.	description	dn	di min.		L		EAN	
			mm	mm		m	m		pg.
unvarnished									
6013 N	XX	without surface finish	20,4	18,2	P13,5	3	30	8595057607491	3-30 3-31 3-33 3-38
6016 N	XX		22,5	20,3	P16	3	30	8595057607507	
6021 N	XX		28,3	25,7	P21	3	30	8595057607514	
6029 N	XX		37	34,4	P29	3	15	8595057607521	
6036 N	XX		47	44	P36	3	15	8595057607538	
6042 N	XX		54	51	P42	3	15	8595057607545	
ZNM									
6013 ZNM	S	Sendzimir galvanized	20,4	18,2	P13,5	3	30; 1200	8595057627208	3-30 3-31 3-33 3-38
6016 ZNM	S		22,5	20,3	P16	3	30; 1200	8595057626157	
6021 ZNM	S		28,3	25,7	P21	3	30; 750	8595057626164	
6029 ZNM	S		37	34,4	P29	3	15; 450	8595057626171	
6036 ZNM	S		47	44	P36	3	15; 300	8595057626188	
6042 ZNM	S		54	51	P42	3	15; 225	8595057626195	
varnished									
6013	EOZ	Sendzimir galvanized steel circumferentially painted black using powder technology	20,4	18,2	P13,5	3	30; 1200	8595057618657	3-30 3-31 3-33 3-38
6016	EOZ		22,5	20,3	P16	3	30; 1200	8595057618664	
6021	EOZ		28,3	25,7	P21	3	30; 750	8595057618671	
6029	EOZ		37	34,4	P29	3	15; 450	8595057618688	
6036	EOZ		47	44	P36	3	15; 300	8595057618695	
6042	EOZ		54	51	P42	3	15; 225	8595057618701	
ZN									
6013 ZN	F	hot-dip galvanized	20,4	18,2	P13,5	3	30; 1200	8595057618718	3-30 3-31 3-33 3-38
6016 ZN	F		22,5	20,3	P16	3	30; 1200	8595057618725	
6021 ZN	F		28,3	25,7	P21	3	30; 750	8595057618732	
6029 ZN	F		37	34,4	P29	3	15; 450	8595057618749	
6036 ZN	F		47	44	P36	3	15; 300	8595057618756	
6042 ZN	F		54	51	P42	3	15; 225	8595057618763	

Connectors for steel threaded ČSN pipes



- ✓ The connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires.



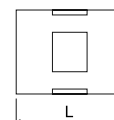
item	conf.	L			EAN
		mm		pcs	
313/1	XX	30	P13,5	10; 540	8595057604865
316/1	XX	35	P16	10; 350	8595057604872
321/1	XX	40	P21	10; 240	8595057604889
329/1	XX	45	P29	10; 120	8595057604896
336/1	XX	55	P36	10; 60	8595057604902
342/1	XX	60	P42	10; 100	8595057604919

Extending connectors for ČSN steel pipes



MAT

Al



- ✓ Connectors are designed to join flexible metal pipes, 33 series (pg. 3-41) with steel threaded pipes.
- ✓ On one side is the inner PG thread, on the other side is the locking notch for fixing the flexible metal pipe.

item	conf.	L	pipe dn			EAN
		mm	mm	inner	pcs	
9813	XX	30	18,9	P13,5	10; 540	8595057605060
9816	XX	35	21,4	P16	10; 350	8595057605077
9829	XX	40	35,2	P29	10; 240	8595057605091

Elbows for ČSN steel threaded pipes

- high mechanical resistance



MAT

steel



-60 - +250°C



1250 N/5 cm



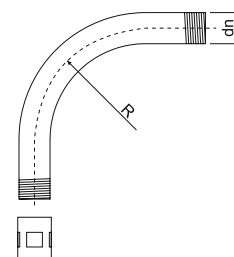
44561



IK10



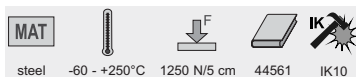
IK10



- ✓ Elbows are fitted with a connector on one side.
- ✓ ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2.
- ✓ Varnished: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4
- ✓ The elbows are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

item	conf.	description	dn		R		EAN
			mm		mm	pcs	
ZNM							
6113 ZNM	S	Sendzimir galvanized	20,4	P13,5	80	1; 25	8595057627277
6116 ZNM	S		22,5	P16	100	1; 25	8595057627284
6121 ZNM	S		28,3	P21	120	1; 20	8595057627291
6129 ZNM	S		37	P29	155	1; 20	8595057627307
6136 ZNM	S		47	P36	185	1; 5	8595057627314
6142 ZNM	S		54	P42	200	1; 5	8595057627321
varnished							
6113	EOZ	Sendzimir galvanized steel circumferentially painted black using powder technology	20,4	P13,5	80	1; 25	8595057618893
6116	EOZ		22,5	P16	100	1; 25	8595057618909
6121	EOZ		28,3	P21	120	1; 20	8595057618916
6129	EOZ		37	P29	155	1; 20	8595057618923
6136	EOZ		47	P36	185	1; 5	8595057618930
6142	EOZ		54	P42	200	1; 5	8595057618947
ZN							
6113 ZN	F	hot-dip galvanized	20,4	P13,5	80	1; 25	8595057618954
6116 ZN	F		22,5	P16	100	1; 25	8595057618961
6121 ZN	F		28,3	P21	120	1; 20	8595057618978
6129 ZN	F		37	P29	155	1; 20	8595057618985
6136 ZN	F		47	P36	185	1; 5	8595057618992
6142 ZN	F		54	P42	200	1; 5	8595057619005

ČSN steel unthreaded pipes - high mechanical resistance



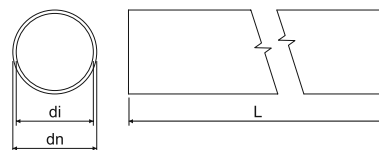
✓ The pipes are suitable for mechanical protection of conductors and cables.

✓ While using pipes along with bushing 4813/P - 4842/P and 4913 - 4942 is scope of application only -5 - +60 °C.

✓ Unvarnished: without surface finish, without corrosion resistance, suitable mostly for construction purposes

✓ ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2

✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4



item	conf.	description	dn	di	L		EAN	
			mm	mm	m	m		pg.
unvarnished								
6216 N	XX	without surface finish	22,5	20,3	3	1200	8595057607583	3-32 3-33 3-38
6221 N	XX		28,3	25,7	3	750	8595057607613	
6229 N	XX		37	34,4	3	600	8595057607644	
6236 N	XX		47	44	3	300	8595057607675	
6242 N	XX		54	51	3	225	8595057607705	
ZNM								
6213 ZNM	S	Sendzimir galvanized	20,4	18,2	3	30; 1200	8595057607576	3-32 3-33 3-38
6216 ZNM	S		22,5	20,3	3	30; 1200	8595057607606	
6221 ZNM	S		28,3	25,7	3	30; 750	8595057607637	
6229 ZNM	S		37	34,4	3	15; 450	8595057607668	
6236 ZNM	S		47	44	3	15; 300	8595057607699	
6242 ZNM	S		54	51	3	15; 225	8595057607729	
ZN								
6213 ZN	F	hot-dip galvanized	20,4	18,2	3	30; 1200	8595057698390	3-32 3-33 3-38
6216 ZN	F		22,5	20,3	3	30; 1200	8595057698406	
6221 ZN	F		28,3	25,7	3	30; 750	8595057698413	
6229 ZN	F		37	34,4	3	15; 450	8595057698420	
6236 ZN	F		47	44	3	15; 300	8595057698437	
6242 ZN	F		54	51	3	15; 225	8595057698444	

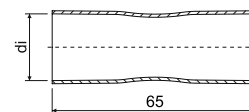
Slide-on connectors for ČSN steel pipes



✓ The connectors are designed to join steel pipes for mechanical protection of cables or wires.

✓ Both ends are fitted with sockets.

✓ The connectors are manufactured from strip steel by welding.

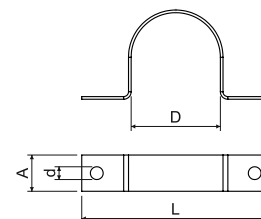


item	conf.	di	pipe dn		EAN
		mm	mm		
313/2	XX	20,9	20,4	10	8595057620094
316/2	XX	23,1	22,5	10	8595057620100
321/2	XX	28,8	28,3	10	8595057620117
329/2	XX	37,5	37,0	10	8595057620124
336/2	XX	47,5	47,0	10	8595057620131
342/2	XX	54,6	54,0	10	8595057620148

Double-sided clamps for ČSN steel pipes

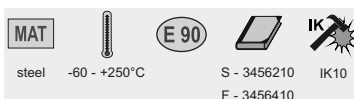


✓ The clamps are designed to attach ČSN steel pipes to the pad.



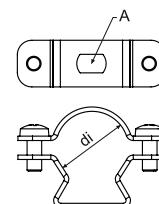
item	conf.	description	D	L	A		d		EAN
			mm	mm	mm	mm	mm	pcs	
5213 PC	S	Sendzimir galvanized	20,4	44,5	10	0,8	4,3	100; 1300	8595057605008
5216 PC	S		22,5	45,5				100; 1100	8595057605015
5221 PC	S		28,3	55,3				100; 800	8595057605022
5229 PC	S		37	67,0	15	1,1	5,3	50; 350	8595057605039
5236 PC	S		47	83,0				50; 200	8595057605046
5242 PC	S		54	95,0				50; 150	8595057605053

OMEGA clamps for ČSN steel pipes



✓ The clamps are designed to attach ČSN steel pipes to the pad.

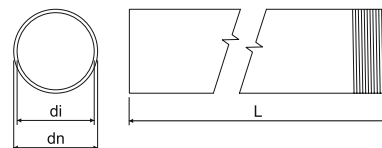
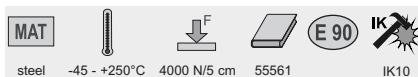
✓ The clamps are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).



item	conf.	description	pipe dn	A	di		EAN
			mm	mm	mm	pcs	
ZNM							
5220 ZNM	S	Sendzimir galvanized	20,4; 22,5	6,3 x 9,8	19 - 23	1; 100	8595057692091
5225 ZNM	S		28,3		24 - 28	1; 100	8595057692107
5232 ZNM	S		37		30 - 40	1; 100	8595057692114
5250 ZNM	S		47		39 - 52	1; 50	8595057692138
5263 ZNM	S		54		53 - 63	1; 50	8595057692145
ZN							
5220 ZN	F	hot-dip galvanized	20,4; 22,5	6,1 x 9,8	19 - 24	1; 50	8595568915276
5225 ZN	F		28,3		24 - 29	1; 50	8595568915283
5232 ZN	F		37		29 - 38	1; 25	8595568915290
5240 ZN	F		47		38 - 47	1; 20	8595568915306
5250 ZN	F		54		47 - 55	1; 50	8595568915313

EN steel threaded pipes

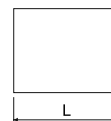
- very high mechanical resistance



- ✓ The pipes are suitable for mechanical protection of conductors and cables.
- ✓ Threaded conduits are supplied with one coupler.
- ✓ While using pipes along with bushing 4816E - 4863 is scope of application only -5 - +60 °C.
- ✓ ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- ✓ Varnished ECZ: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ✓ Varnished EOZ: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4
- ✓ The pipes are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

item	conf.	description	dn	di		L		EAN	
			mm	mm		m			
ZNM									
6020 ZNM	S	Sendzimir galvanized	20	15,8	M20x1,5	3	30; 1200	8595568919601	3-34
6025 ZNM	S		25	20,6	M25x1,5	3	30; 600	8595568920393	3-35
6032 ZNM	S		32	26,6	M32x1,5	3	21; 420	8595568922342	3-37
6040 ZNM	S		40	34,4	M40x1,5	3	15; 450	8595568923752	3-38
varnished									
6016E	ECZ	painting in black on both sides	16	12,2	M16x1,5	3	30; 1200	8595057634152	3-34 3-35 3-37 3-38
6020	EOZ	painting in black circumferentially	20	15,8	M20x1,5	3	30; 1200	8595568919595	
6025	EOZ		25	20,6	M25x1,5	3	30; 600	8595568920379	
6032	EOZ		32	26,6	M32x1,5	3	21; 420	8595568922366	
6040	EOZ		40	34,4	M40x1,5	3	15; 450	8595568923769	
6050	ECZ	painting in black on both sides	50	43,8	M50x1,5	3	15; 300	8595057634206	
6063	ECZ		63	58,8	M63x1,5	3	15; 150	8595057634213	
ZN									
6016E ZN	F	hot-dip galvanized	16	12,2	M16x1,5	3	30; 1200	8595057631304	3-34 3-35 3-37 3-38
6020 ZN	F		20	15,8	M20x1,5	3	30; 1200	8595057631311	
6025 ZN	F		25	20,6	M25x1,5	3	30; 600	8595057631328	
6032 ZN	F		32	26,6	M32x1,5	3	21; 420	8595057631335	
6040 ZN	F		40	34,4	M40x1,5	3	15; 450	8595057631342	
6050 ZN	F		50	43,8	M50x1,5	3	15; 300	8595057631359	
6063 ZN	F		63	58,8	M63x1,5	3	15; 150	8595057631595	

Connectors for steel threaded EN pipes

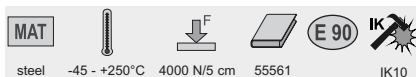


- ✓ The connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires.

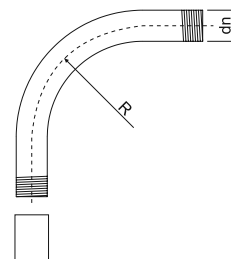
item	conf.	description	L			EAN
			mm			
varnished						
316E/1	ECZ	painted in black on both sides	30	M16x1,5	1; 25	8595057634640
320/1	ECZ		30	M20x1,5	1; 50	8595057634657
325/1	ECZ		36	M25x1,5	1; 50	8595057634664
332/1	ECZ		45	M32x1,5	1; 50	8595057634671
340/1	ECZ		48	M40x1,5	1; 25	8595057634688
350/1	ECZ		70	M50x1,5	1; 10	8595057634695
363/1	ECZ		105	M63x1,5	1; 5	8595057634701
ZN or ZN-Ni						
316E/1 ZN	F	hot-dip galvanized or zinc - nickel coating	30	M16x1,5	1; 25	8595057634572
320/1 ZN	F		30	M20x1,5	1; 50	8595057634589
325/1 ZN	F		36	M25x1,5	1; 50	8595057634596
332/1 ZN	F		45	M32x1,5	1; 50	8595057634602
340/1 ZN	F		48	M40x1,5	1; 25	8595057634619
350/1 ZN	F		70	M50x1,5	1; 10	8595057634626
363/1 ZN	F		105	M63x1.5	1; 5	8595057634633

Elbows for EN steel threaded pipes

- very high mechanical resistance

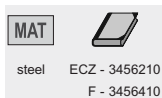


- ✓ Elbows are fitted with a connector on one side.
- ✓ Varnished: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4.
- ✓ The elbows are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

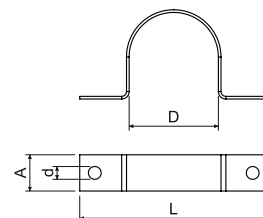


item	conf.	description	di		R		EAN
			mm		mm	pcs	
varnished							
6116E	ECZ	steel material painted black on both sides	16	M16x1,5	55	1; 15	8595057634367
6120	ECZ		20	M20x1,5	70	1; 25	8595057634374
6125	ECZ		25	M25x1,5	115	1; 25	8595057634381
6132	ECZ		32	M32x1,5	125	1; 20	8595057634398
6140	ECZ		40	M40x1,5	140	1; 15	8595057634404
6150	ECZ		50	M50x1,5	170	1; 5	8595057634411
6163	ECZ		63	M63x1,5	210	1; 3	8595057634428
ZN							
6116E ZN	F	hot-dip galvanized	16	M16x1,5	55	1; 15	8595057631366
6120 ZN	F		20	M20x1,5	70	1; 25	8595057631373
6125 ZN	F		25	M25x1,5	115	1; 25	8595057631380
6132 ZN	F		32	M32x1,5	125	1; 20	8595057631397
6140 ZN	F		40	M40x1,5	140	1; 15	8595057631403
6150 ZN	F		50	M50x1,5	170	1; 5	8595057631410
6163 ZN	F		63	M63x1,5	210	1; 3	8595057631670

Double-sided clamps for EN steel pipes



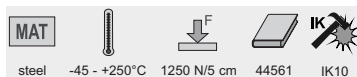
- ✓ For attaching EN steel pipes to the pad.



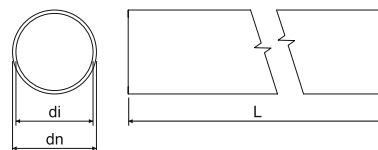
item	conf.	description	D	L	a		d		EAN	
			mm	mm	mm	mm	mm	pcs		
varnished										
5220 PC	ECZ	painted in black on both sides	20	45	10	0,8	5,3	1; 100	8595057631618	
5225 PC	ECZ		25	50				12	1; 100	8595057631625
5232 PC	ECZ		32	57					1; 100	8595057631632
5240 PC	ECZ		40	70	1,1	1; 50			8595057631649	
5250 PC	ECZ		50	85		1; 50		8595057631656		
5263 PC	ECZ		63	96		1; 50		8595057631663		
ZN										
5220 PC ZN	F	hot-dip galvanized	20	45	10	0,8	5,3	1; 100	8595057634794	
5225 PC ZN	F		25	50				12	1; 100	8595057634800
5232 PC ZN	F		32	57					1; 100	8595057634817
5240 PC ZN	F		40	70	1,1	1; 50			8595057634824	
5250 PC ZN	F		50	85		1; 50		8595057634831		
5263 PC ZN	F		63	96		1; 50		8595057634848		

EN steel unthreaded pipes

- high mechanical resistance



- ✓ The pipes are suitable for mechanical protection of conductors and cables.
- ✓ While using pipes along with bushing 4816E - 4863 is scope of application only -5 - +60 °C.
- ✓ ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- ✓ Varnished ECZ: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ✓ Varnished EOZ: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4



item	conf.	description	dn	di	L		EAN	
			mm	mm	m	m		pg.
ZNM								
6220 ZNM	S	Sendzimir galvanized	20	15,8	3	30; 1200	8595568919625	3-32 3-36 3-38
6225 ZNM	S		25	20,6	3	30; 600	8595568920409	
6232 ZNM	S		32	26,6	3	21; 420	8595568922359	
6240 ZNM	S		40	34,4	3	15; 450	8595568923745	
varnished								
6216E	ECZ	painting in black on both sides	16	12,2	3	30; 1200	8595057634299	3-32 3-36 3-38
6220	EOZ	painted in black circumferentially	20	15,8	3	30; 1200	8595568919618	
6225	EOZ		25	20,6	3	30; 600	8595568920386	
6232	EOZ		32	26,6	3	21; 420	8595568922373	
6240	EOZ		40	34,4	3	15; 450	8595568923776	
6250	ECZ	painted in black on both sides	50	43,8	3	15; 300	8595057634343	
6263	ECZ		63	58,8	3	15; 150	8595057634350	
ZN								
6216E ZN	F	hot-dip galvanized	16	12,2	3	30; 1200	8595057634220	3-32 3-36 3-38
6220 ZN	F		20	15,8	3	30; 1200	8595057634237	
6225 ZN	F		25	20,6	3	30; 600	8595057634244	
6232 ZN	F		32	26,6	3	21; 420	8595057634251	
6240 ZN	F		40	34,4	3	15; 450	8595057634268	
6250 ZN	F		50	43,8	3	15; 300	8595057634275	
6263 ZN	F		63	58,8	3	15; 150	8595057634282	

Slide-on connectors for EN steel pipes



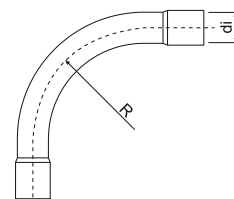
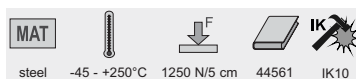
- ✓ The connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires.
- ✓ Both ends are fitted with sockets.
- ✓ The connectors are manufactured from strip steel by welding.



item	conf.	description	di		EAN
			mm	pcs	
varnished					
316E/2	ECZ	painted in black on both sides	16	1; 25	8595057631427
320/2	ECZ		20	1; 50	8595057631434
325/2	ECZ		25	1; 50	8595057631441
332/2	ECZ		32	1; 50	8595057631458
340/2	ECZ		40	1; 25	8595057631465
350/2	ECZ		50	1; 10	8595057631472
363/2	ECZ		63	1; 5	8595057631588
ZN or ZN-Ni					
316E/2 ZN	F	hot-dip galvanized or zinc - nickel coating	16	1; 25	8595057634718
320/2 ZN	F		20	1; 50	8595057634725
325/2 ZN	F		25	1; 50	8595057634732
332/2 ZN	F		32	1; 50	8595057634749
340/2 ZN	F		40	1; 25	8595057634756
350/2 ZN	F		50	1; 10	8595057634763
363/2 ZN	F		63	1; 5	8595057634770

Elbows for EN steel unthreaded pipes

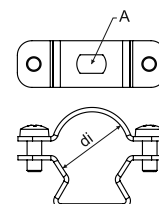
- high mechanical resistance



- ✓ Both ends are fitted with sockets.
- ✓ Varnished: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ✓ ZN: after steel bar welding hot-galvanized using immersion, zinc layer 50 - 100 µm, high corrosion resistance - g. 4.

item	conf.	description	di	R		EAN
			mm	mm	pcs	
varnished						
6316E	ECZ	steel material painted black on both sides	16	55	1; 15	8595057634503
6320	ECZ		20	70	1; 25	8595057634510
6325	ECZ		25	115	1; 25	8595057634527
6332	ECZ		32	125	1; 20	8595057634534
6340	ECZ		40	140	1; 15	8595057634541
6350	ECZ		50	170	1; 5	8595057634558
6363	ECZ		63	210	1; 3	8595057634565
ZN						
6316E ZN	F	hot-dip galvanized	16	55	1; 15	8595057634435
6320 ZN	F		20	70	1; 25	8595057634442
6325 ZN	F		25	115	1; 25	8595057634459
6332 ZN	F		32	125	1; 20	8595057634466
6340 ZN	F		40	140	1; 15	8595057634473
6350 ZN	F		50	170	1; 5	8595057634480
6363 ZN	F		63	210	1; 3	8595057634497

OMEGA clamps for EN steel pipes



- ✓ The clamps are designed to attach EN steel pipes to the pad.
- ✓ The clamps are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

item	conf.	description	pipe dn	A	di		EAN
			mm	mm	mm	pcs	
ZNM							
5216E ZNM	S	Sendzimir galvanized	16	6,3 x 9,8	15 - 18	1; 100	8595057692084
5220 ZNM	S		20		19 - 23	1; 100	8595057692091
5225 ZNM	S		25		24 - 28	1; 100	8595057692107
5232 ZNM	S		32; 40		30 - 40	1; 100	8595057692114
5250 ZNM	S		50		39 - 52	1; 50	8595057692138
5263 ZNM	S		63		53 - 63	1; 50	8595057692145
ZN							
5216E ZN	F	hot-dip galvanized	16	6,1 x 9,8	15 - 19	1; 50	8595568915269
5220 ZN	F		20		19 - 24	1; 50	8595568915276
5225 ZN	F		25		24 - 29	1; 50	8595568915283
5232 ZN	F		32		29 - 38	1; 25	8595568915290
5240 ZN	F		40		38 - 47	1; 20	8595568915306
5250 ZN	F		50		47 - 55	1; 20	8595568915313
5263 ZN	F		63		55 - 63	1; 20	8595568915320

material

mechanical resistance

classification code according to 61386-25

mechanical protection

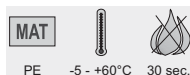
temperature resistance

classification code according to 61386-1

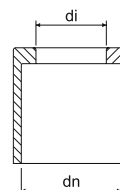
functionality during a fire

package

Straight gland for EN pipes - external



- ✓ The bushings are designed to mechanically protect the conductors or cables coming from the steel pipe.
- ✓ Plug the bushing from outside on the end of pipe before installing cables.

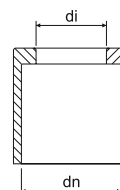


item	conf.	dn	di	pcs	EAN
		mm	mm		
4816E	KA	16	12	100; 3000	8595057688575
4820	KA	20	16	100; 1200	8595057688582
4825	KA	25	21	100; 800	8595057688599
4832	KA	32	28	50; 400	8595057688605
4840	KA	40	35	50; 200	8595057688612
4850	KA	50	43	25; 100	8595057688629
4863	KA	63	57	10; 70	8595057688636

Straight gland for ČSN steel pipes - external

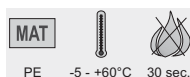


- ✓ The bushings are designed to mechanically protect the conductors or cables coming from the steel pipe.
- ✓ Plug the bushing from outside on the end of pipe before installing cables.

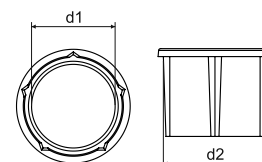


item	conf.	dn	di	pcs	EAN
		mm	mm		
4813/P	KB	20,4	15	100; 3000	8595057604926
4816/P	KB	22,5	16	100; 1200	8595057604933
4821/P	KB	28,3	22	100; 1000	8595057604940
4829/P	KB	37	30	100; 400	8595057604971
4836/P	KB	47	37	100; 300	8595057604988
4842/P	KB	54	42	75; 150	8595057604995

Straight gland for ČSN steel pipes - internal



- ✓ The bushings are designed to mechanically protect the conductors or cables coming from the the steel pipe.
- ✓ Plug the bushing from inside on the end of pipe before installing cables.



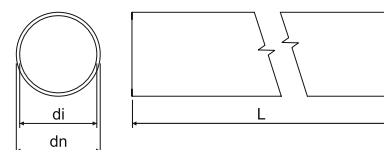
item	conf.	d1	d2 - inner Ø pipe	pcs	EAN
		mm	mm		
4913	XX	13,5	18,2	400; 2800	8595057657236
4916	XX	15,6	20,3	400; 2000	8595057657243
4921	XX	20,6	25,7	250; 1500	8595057657250
4929	XX	29,4	34,4	100; 700	8595057657267
4936	XX	38,4	44	80; 400	8595057657274
4942	XX	45,5	51	60; 360	8595057657281

Aluminium seamless pipes - high mechanical resistance



MAT				
Al	-45 - +250°C	1250 N/5 cm	44561	

- ✓ The pipes are proper for mechanical protection of conductors and cables. They can be used for industrial installations, high anticorrosive ability – class 4.



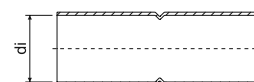
item	conf.	dn	di	L		EAN
		mm	mm	m		
6216E AL	XX	16	14	3	30; 1800	8595057657731
6220 AL	XX	20	18	3	30; 1200	8595057657748
6225 AL	XX	25	23	3	30; 750	8595057657755
6232 AL	XX	32	30	3	30; 480	8595057657762
6240 AL	XX	40	38	3	15; 300	8595057657779
6250 AL	XX	50	47	3	15; 180	8595057657786
6263 AL	XX	63	59,8	3	15; 120	8595057657793

Slip-on couplers for aluminium pipes



MAT
Al

- ✓ The connectors are designed to join aluminium pipes for mechanical protection of cables or wires.
✓ Both ends are fitted with sockets.



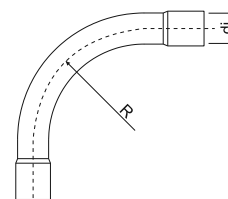
item	conf.	di		EAN
		mm		
316E/2 AL	XX	16	1; 50	8595057657878
320/2 AL	XX	20	1; 50	8595057657885
325/2 AL	XX	25	1; 50	8595057657892
332/2 AL	XX	32	1; 50	8595057657908
340/2 AL	XX	40	1; 20	8595057657915
350/2 AL	XX	50	1; 20	8595057657922
363/2 AL	XX	63	1; 25	8595057657939

Elbows for aluminium pipes - high mechanical resistance



MAT				
Al	-45 - +250°C	1250 N/5 cm	44561	

- ✓ Both ends are fitted with sockets.



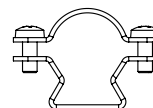
item	conf.	di	R		EAN
		mm	mm		
6316E AL	XX	16	55	1; 25	8595057657809
6320 AL	XX	20	70	1; 25	8595057657816
6325 AL	XX	25	115	1; 25	8595057657823
6332 AL	XX	32	125	1; 20	8595057657830
6340 AL	XX	40	140	1; 15	8595057657847
6350 AL	XX	50	170	1; 5	8595057657854
6363 AL	XX	63	210	1; 3	8595057657861

Aluminium clamps OMEGA



✓ For attaching aluminium pipes to the pad.

✓ To facilitate mounting, the clamp is provided with a groove for insertion; during mounting, it is not required to completely separate the top part of the clamp.



item	conf.	pipe dn	D mm		EAN
		mm		pcs	
5216E AL	XX	16	6,4	1; 50	8595057689725
5220 AL	XX	20		1; 50	8595057689732
5225 AL	XX	25		1; 50	8595057689749
5232 AL	XX	32		1; 25	8595057689756
5240 AL	XX	40		1; 25	8595057689763
5250 AL	XX	50		1; 25	8595057689770
5263 AL	XX	63		1; 20	8595057689787

Aluminium clamps



✓ For attaching aluminium pipes to the pad.

✓ Pipes are installed by pushing between the clamp jaws.

item	conf.	pipe dn	d mm		EAN
		mm		pcs	
5216E PC AL	XX	16	6,4	1; 50	8595057688650
5220 PC AL	XX	20		1; 50	8595057688667
5225 PC AL	XX	25		1; 50	8595057688674
5232 PC AL	XX	32		1; 50	8595057688681
5240 PC AL	XX	40		1; 25	8595057688698
5250 PC AL	XX	50		1; 25	8595057688704
5263 PC AL	XX	63		1; 5	8595057688711

Corrosion protection for galvanized surfaces



✓ Corrosion protection for repair of defective and damaged places on galvanized surfaces.

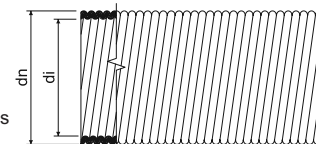
✓ The colour is applied with a brush, stippling technique.

item	conf.	description		EAN
			pcs	
GZS	XX	spray	1	8595057633148
WEICON 375	XX	color	1	8595057621183
WEICON 750	XX		1	8595057693609

Flexible metal pipe



MAT			
steel	-45 - +90°C	750 N/5 cm	33522



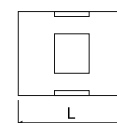
- ✓ The pipes are suitable for mechanical protection of conductors and cables inside halls (indoor).
- ✓ The pipes are made of galvanized steel bar at the top (zinc layer 3 - 4 µm) and isolation layer inside.
- ✓ Flexible metal pipes may be connected to steel threaded pipes by means of couplings of 98xx series.

item	conf.	dn	di		EAN
		mm	mm	m	
3313	B	18,9	13,5	10	8595057655850
	XX			100	8595057604230
3316	B	21,4	16	10	8595057655867
	XX			100	8595057604247
3323	B	28,9	23	10	8595057655874
	XX			50	8595057604254
3329	B	35,2	29	10	8595057655881
	XX			50	8595057604261
3336	B	43	36	10	8595057655898
	XX			25	8595057604278
3348	B	54,9	48	10	8595057655904
	XX			25	8595057604292

Couplers for flexible metal pipes



MAT
Al



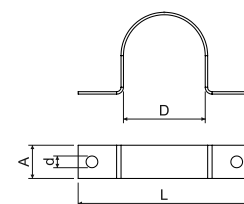
- ✓ The couplers are designed to join flexible metal pipes using inner clipping nick.
- ✓ While stocks last.

item	conf.	pipe dn	L		EAN
		mm	mm	pcs	
9613	XX	18,9	35	10; 540	8595057604568
9616	XX	21,4	40	10; 350	8595057604575

Double-sided clamps



MAT	
steel	3456210



- ✓ The clamps are designed to attach flexible metal pipes to the pad.

item	conf.	description	D	L	a		d		EAN
			mm	mm	mm	mm	mm	pcs	
3613 A	S	Sendzimir galvanized	18,5	40,5	10	0,8	4,3	100; 1300	8595057604629
3616 A	S		20,9	46,9				100; 1100	8595057604636
3623 A	S		28,3	55,3				100; 800	8595057604643
3629 A	S		34,5	67,5	15	1,1	5,3	50; 350	8595057604650
3636 A	S		42,2	82,2				50; 200	8595057604667
3648 A	S		54,0	95,0				50; 150	8595057604674

KOPODREN

- drainage pipe

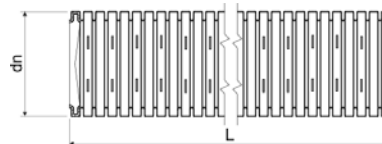


✓ KOPODREN pipeline is used in all areas of drain technics, e.g. draining of buildings, deep engineering constructions, sport places building, in agriculture, gardens, to drain areas of use, or to temporary draining of work sites.

✓ The pipes have low weight and high chemical resistance.

✓ The construction of the pipe ensures high flexibility. This is a major advantage when installing as well as meeting the requirement of small bend radius.

✓ The pipe joints are protected against pull-off and are designed to join using a snap.



item	conf.		dn	L	EAN
			mm	m	
KOPODREN 50	F50	black	50	50	8595568926654
KOPODREN 65	F50		65	50	8595568926661
KOPODREN 80	F50		80	50	8595568926678
KOPODREN 100	F50		100	50	8595568926685
KOPODREN 125	F50		125,5	50	8595568926692
KOPODREN 160	F50		159,5	50	8595568926708
KOPODREN 200	F45		199,5	45	8595568926715

KOPODREN drainage pipe accessories

pipe dn mm	connectors			T joints			reducers			90° elbows		
	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
50	KN-S 50	FB	8595057622630	KN-T 50	FB	8595057622913	KN-R 65/50	FB	8595057622579			
65	KN-S 65	FB	8595057622647	KN-T 65	FB	8595057622920	KN-R 80/65	FB	8595057622586			
80	KN-S 80	FB	8595057622654	KN-T 80	FB	8595057622937	KN-R 100/80	FB	8595057622593	KN-K90 80	FB	8595057622869
100	KN-S 100	FB	8595057622661	KN-T 100	FB	8595057622944	KN-R 125/100	FB	8595057622609	KN-K90 100	FB	8595057622876
125,5	KN-S 125	FB	8595057622678	KN-T 125	FB	8595057622951	KN-R 160/125	FB	8595057622616	KN-K90 125	FB	8595057622883
159,5	KN-S 160	FB	8595057622685	KN-T 160	FB	8595057622968	KN-R 200/160	FB	8595057622623	KN-K90 160	FB	8595057622890
199,5	KN-S 200	FB	8595057622692	KN-T 200	FB	8595057622975				KN-K90 200	FB	8595057622906

pipe dn mm	end flaps			plugs			45° branches			90° bends		
	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN	item	conf.	EAN
50	KN-KK 50	FB	8595057623057	KN-Z 50	FB	8595057622982	KN-OD45 50	FB	8595057622708	KN-OB90 50	FB	8595057622777
65	KN-KK 65	FB	8595057623064	KN-Z 65	FB	8595057622999	KN-OD45 65	FB	8595057622715	KN-OB90 65	FB	8595057622784
80	KN-KK 80	FB	8595057623071	KN-Z 80	FB	8595057623002	KN-OD45 80	FB	8595057622722	KN-OB90 80	FB	8595057622791
100	KN-KK 100	FB	8595057623088	KN-Z 100	FB	8595057623019	KN-OD45 100	FB	8595057622739	KN-OB90 100	FB	8595057622807
125,5	KN-KK 125	FB	8595057623095	KN-Z 125	FB	8595057623026	KN-OD45 125	FB	8595057622746			
159,5	KN-KK 160	FB	8595057623101	KN-Z 160	FB	8595057623033	KN-OD45 160	FB	8595057622753			
199,5	KN-KK 200	FB	8595057623118	KN-Z 200	FB	8595057623040	KN-OD45 200	FB	8595057622760			

✓ All accessories for drainage pipes KOPODREN available upon order.

Wiring pipes - number of cables to put in

		CYKY 2 x 1,5	CYKY 3 x 1,5	CYKY 4 x 1,5	CYKY 3 x 2,5	CYKY 5 x 1,5	CYKY 4 x 2,5	CYKY 5 x 2,5	CYKY 4 x 4	CYKY 5 x 4	CYKY 4 x 6	CYKY 5 x 6
cable diameter (mm)	6	8,3	8,7	9,5	10	10,3	10,9	12,3	13,2	14,4	14,4	16
FLEXIBLE PIPES												
XX16E - EN	1	1	1	X	X	X	X	X	X	X	X	X
XX20 - EN	2 (3)	1	1	1	1	1	1	X	X	X	X	X
XX25 - EN	4	2	2	1	1	1	1	1	1	1	1	X
XX32 - EN	8	4	4	3	3	3	2	1	1	1	1	1
XX40 - EN	13	7	6	5	5	4	4	3	3	2	2	1
XX50 - EN	21	11	10	8	7	7	6	5	4	4	4	3
XX13 - ČSN	2	1	1	1	1	1	1	X	X	X	X	X
XX16 - ČSN	3	1 (2)	1	1	1	1	1	1	1	X	X	X
XX23 - ČSN	7	4	3	3	2	2	1 (2)	1	1	1	1	1
XX29 - ČSN	11	6	5	4	4	4	3	3	2	1	1	1
XX36 - ČSN	17	9	8	7	6	6	5	4	3	3	3	2
SF16	3	1	1	1	1	1	1	1	1	X	X	X
SF20	5	3	2	1 (2)	1	1	1	1	1	1	1	1
SF25	8	4	4	3	3	3	2 (3)	1 (2)	1	1	1	1
SF32	13	7	6	5	5	5	4	3	3	2 (3)	2 (3)	1 (2)
KF 09040	13	7	6	5	5	5	4	3	3	2	2	2
KF 09050	22	11	10	9	8	7	7	5	5	4	4	3
KF 09063	35	18	17	14	13	12	11	8	7	6	6	5
KF 09075	49	25	23	19	18	17	15	12	10	8	8	7
KF 09090	74	38	35	29	27	25	22	18	15	13	13	10
KF 09110	116	60	55	46	42	39	35	28	24	20	20	16
KF 09125	153	80	73	61	55	52	46	36	32	27	27	21
KF 09160	242	127	115	97	87	82	73	58	50	42	42	34
KF 09200	401	209	191	160	144	136	121	95	83	70	70	56
RIGID PIPES												
XX16E - EN	1 (2)	1	1	1	1	1	X	X	X	X	X	X
XX20 - EN	2 (3)	1	1	1	1	1	1	1	1	X	X	X
XX25 - EN	6	3	3	2	1 (2)	1 (2)	1	1	1	1	1	1
XX32 - EN	9	5	4	4	3	3	23	2	1	1	1	1
XX40 - EN	15	8	7	6	6	5	5	4	3	3	3	1 (2)
XX50 - EN	24	13	12	10	9	8	7	6	5	4	4	3
XX63 - EN	43	22	20	17	15	14	13	10	9	7	7	6
6013 - ČSN	4	2	1 (2)	1	1	1	1	1	1	1	1	X
6016 - ČSN	2 (3)	3	3	1 (2)	1	1	1	1	1	1	1	1
6021 - ČSN	9	5	4	3	3	3	3	1 (2)	1	1	1	1
6029 - ČSN	15	8	7	6	6	5	5	4	3	3	3	2
6036 - ČSN	25	13	12	10	9	9	8	6	5	4	4	4
6042 - ČSN	34	18	16	14	12	12	10	8	7	6	6	5
6016E - EN	3	1	1	1	1	1	1	1	X	X	X	X
6020 - EN	4	2	1 (2)	1	1	1	1	1	1	1	1	X
6025 - EN	7	3	3	3	2	2	1	1	1	1	1	1
6032 - EN	11	6	5	5	4	4	3	3	2	1	1	1
6040 - EN	19	10	9	7	7	6	6	4	4	3	3	3
6050 - EN	30	15	14	12	11	10	9	7	6	5	5	4
6063 - EN	48	25	23	19	17	16	15	11	10	8	8	7
KD 09040	13	7	6	5	5	5	4	3	3	2	2	2
KD 09050	22	11	10	9	8	7	7	5	5	4	4	3
KD 09063	35	18	17	14	13	12	11	8	7	6	6	5
KD 09075	49	25	23	19	18	17	15	12	10	8	8	7
KD 09090	74	38	35	29	27	25	22	18	15	13	13	10
KD 09110	116	60	55	46	42	39	35	28	24	20	20	16
KD 09125	153	80	73	61	55	52	46	36	32	27	27	21
KD 09160	242	127	115	97	87	82	73	58	50	42	42	34
KD 09200	401	209	191	160	144	136	121	95	83	70	70	56

The table is based on 60% cross-section usage of the pipes.

