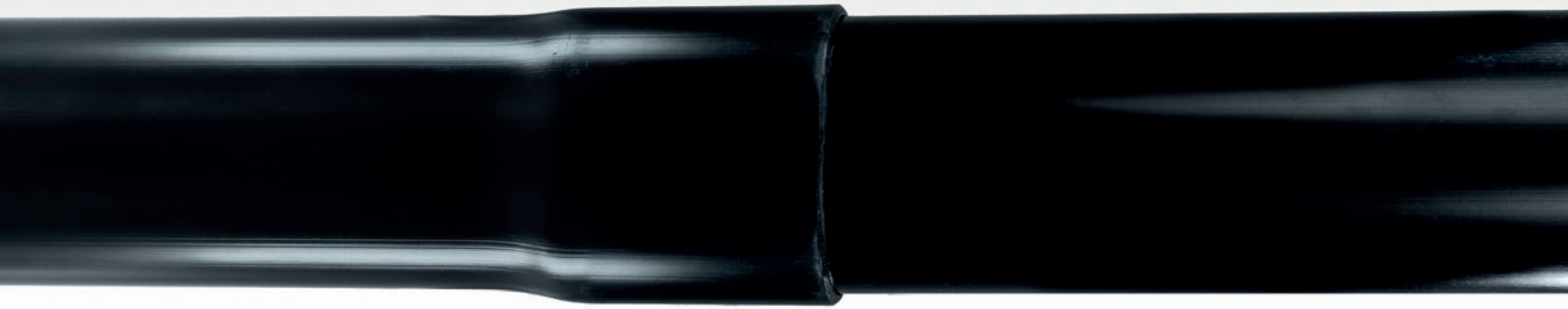




KOPOS



WIRING  
PIPES



# YOU STAND FOR OUR SUCCESS

New technologies guarantee the improvement and innovation of our products. For you.














# WIRING PIPES

Wiring pipes and accessories are designed for the protection and routing of electrical or data cables up to AC 1000 V or DC 1500 V. KOPOS KOLÍN a.s. has a wide range of plastic, metallic, rigid or flexible wiring pipes. These pipes are made of classic PVC, halogen-free materials PE, PP, PA or PC ABS with mechanical strength from basic 125N up to 4000N for different kind of use. The pipes are suitable for indoors as well as outdoors installations, for which UV stable electrical pipes and accessories are used. We offer a large number of accessories for all pipes (couplings, clamps, elbows, ...). Some of our pipes and accessories can be installed in areas with explosion hazards of flammable gases and vapours of zone 2 and to the area with a risk of explosion of flammable dusts of zone 22. In addition, the pipes are tested for IK mechanical protection and the steel pipes comply with the highest protection of IK10.



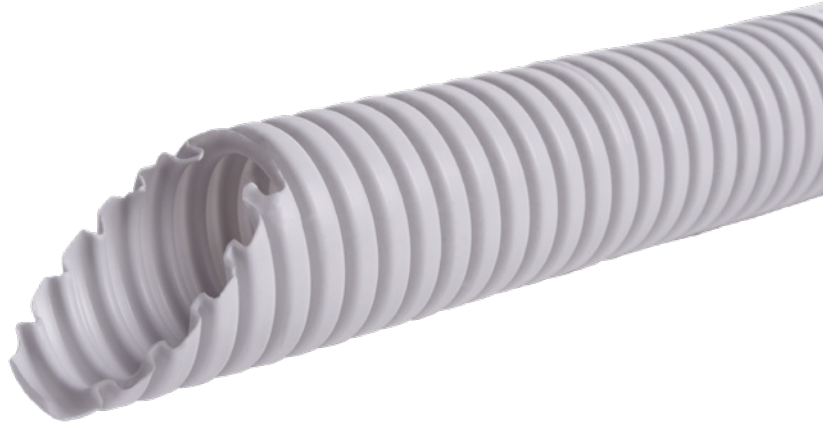
## Icons - legend

 MAT	material	 IK	mechanical protection
	temperature resistance, scope of application (°C)	 E 90	functionality during a fire
	fire reaction class of underlying material	 HF	halogen-free material
	self-extinguishing	 UV	UV stable
	mechanical resistance / load limit value (N)	dn	outside diameter
	classification code according to ČSN EN 61386-1	di min	inside diameter
	area with a risk of explosion		



# MONOFLEX®

- For surface installation, into or under parget.
- Suitable for mounting into hollow walls, plaster walls, ceilings and wooden constructions.
- 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	dn	di min	length	color
1416E	16	10,7	10 m a 50 m	light grey, white, black
1420	20	14,1	10 m a 50 m	light grey, white, black
1425	25	18,3	10 m a 50 m	light grey, white, black
1432	32	24,3	10 m a 50 m	light grey, white, black
1440	40	31,2	25 m	light grey, black
1450	50	39,6	25 m	light grey, black



# SUPER MONOFLEX



- For surface installation, into or under parget.
- Suitable for mounting into hollow walls, plaster walls, ceilings and wooden constructions.
- 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	dn	di min	length	color
1216E	16	10,7	50 m	dark grey
1220	20	14,1	50 m	dark grey
1225	25	18,3	50 m	dark grey
1232	32	24,3	25 m	dark grey
1240	40	31,2	25 m	dark grey
1250	50	39,6	25 m	dark grey

# SUPER MONOFLEX HFPP

- Flexible halogen-free self-extinguishing pipe made of PP with low smoke.
- For installation on the surface, in plaster, under plaster or into concrete.
- Suitable for mounting into hollow walls, plaster walls, ceilings and wooden constructions.
- 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	dn	di min	length	color
1216EHFPP	16	10,7	100 m	grey
1220HFPP	20	14,1	100 m	grey
1225HFPP	25	18,2	100 m	grey
1232HFPP	32	24,2	50 m	grey
1240HFPP	40	32,5	50 m	grey
1250HFPP	50	41,2	25 m	grey



PP



-25 - +105°C



A1 - F



30 sec.



750 N/5 cm



33432



# APAFS, APACS



- 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.

item	dn	di min	length	color
APAFS16	15,8	11,8	50 m	black
APAFS21	21,2	16,5	50 m	black
APAFS28	28,5	22,6	50 m	black
APAFS34	34,5	28,8	50 m	black
APACS42	42,5	35,2	25 m	black
APACS54	54,5	46,5	25 m	black
APACS80	79,3	67,3	10 m	black



PA

pevné uložení: -40 - +120°C  
pohyblivé uložení: -5 - +120°C

A1 - F



30 sec.



320 N/5 cm



242440



### LPE-1

- Suitable for direct monolithic concreting or under the parget.



PE



-25 - +90°C



A1



320 N/5 cm



22423

item	dn	di min	length	color
2316E/LPE-1	16	10,7	100 m	oranžová
2320/LPE-1	20	14,1	50 m	oranžová
2325/LPE-1	25	18,3	50 m	oranžová
2332/LPE-1	32	24,3	50 m	oranžová
2340/LPE-1	40	31,2	25 m	oranžová
2316/LPE-1	21,2	16	100 m	white
2323/LPE-1	28,5	22,9	100 m	white
2329/LPE-1	34,5	28,4	50 m	white
2316E/LPE-1	16	10,7	100 m	black
2320/LPE-1	20	14,1	100 m	black
2325/LPE-1	25	18,3	100 m	black
2332/LPE-1	32	24,3	50 m	black



### LPE-2



- Suitable for installing into prefabricated concrete elements.



PE



-25 - +90°C



A1



125 N/5 cm



11423

item	dn	di min	length	color
2313/LPE-2	18,7	13,5	100 m	white
2316/LPE-2	21,2	16	100 m	white
2323/LPE-2	28,5	22,9	100 m	white
2329/LPE-2	34,5	28,4	50 m	white
2336/LPE-2	42,2	35,9	50 m	white

# SPIROFLEX

- 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.



MAT

PVC



-5 - +60°C



A1 - F



30 sec.



320 N/5 cm



23114

item	dn	di min	length	color
SF16	20,7	16	30 m	light grey
SF20	25,0	20	30 m	light grey
SF25	30,6	25	30 m	light grey
SF32	38,0	32	30 m	light grey

# Flexible metal pipe



- 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.

MAT

Steel



-45 - +90°C



750 N/5 cm



33522

item	dn	di min	length
3313	18,9	13,5	10 m a 50 m
3316	21,4	16	10 m a 50 m
3323	28,9	23	10 m a 50 m
3329	35,2	29	10 m a 50 m
3336	43,0	36	5 m a 25 m
3348	54,9	48	5 m a 25 m



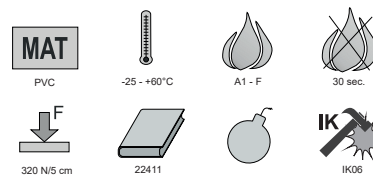
# Rigid wiring pipes 15xx

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	dn	di min	length	color
1516E	16	13,7	2 m, 3 m	light grey, white, black
1520	20	17,4	2 m, 3 m	light grey, white, black
1525	25	22,1	2 m, 3 m	light grey, white, black
1532	32	28,6	2 m, 3 m	light grey, white, black
1540	40	36,6	2 m, 3 m	light grey, black
1550	50	45,9	2 m, 3 m	light grey, black
1563	63	58,4	2 m, 3 m	light grey, black



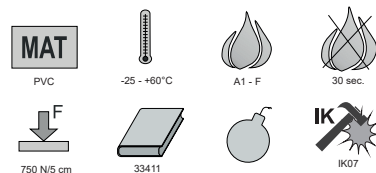
# Rigid wiring pipes 40xx

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	dn	di min	length	color
4016E	16	13,0	2 m, 3 m	light grey, dark grey
4020	20	16,9	2 m, 3 m	light grey, dark grey
4025	25	21,4	2 m, 3 m	light grey, dark grey
4032	32	28,0	2 m, 3 m	light grey, dark grey
4040	40	35,8	2 m, 3 m	light grey, dark grey
4050	50	45,0	2 m, 3 m	light grey, dark grey
4063	63	57,4	2 m, 3 m	light grey, dark grey





# Rigid wiring pipes 80xx

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	dn	di min	length	color
8016E	16	12,2	3 m	black
8020	20	15,8	3 m	black
8025	25	20,6	3 m	black
8032	32	27,0	3 m	black
8040	40	35,0	3 m	black
8050	50	44,1	3 m	black
8063	63	55,4	3 m	black

MAT

PVC



-25 - +60°C



A1 - F



30 sec.



1250 N/5 cm



44411



IK09

# Halogen-free rigid wiring pipes 15xxHF

low mechanical resistance



- Halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments.
- Up to a diameter of 25, the pipes are rigid socket pipes at one end. Diameters 32 - 63 are fitted with a coupling.
- 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.

MAT

PC ABS



-45 - +90°C



A1 - F



30 sec.



320 N/5 cm



22521



IK06

E 90

item	dn	di min	length	color
1516EHF	16	13,1	3 m	light grey, black
1520HF	20	17,1	3 m	light grey, black
1525HF	25	21,6	3 m	light grey, black
1532HF	32	28,4	3 m	light grey, black
1540HF	40	36,0	3 m	light grey, black
1550HF	50	45,6	3 m	light grey, black
1563HF	63	58,4	3 m	light grey, black



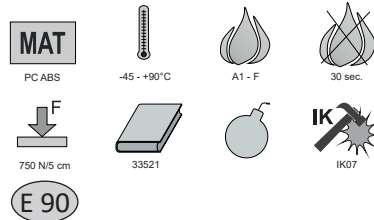
# Halogen-free rigid wiring pipes 40xxHF

medium mechanical resistance

- Halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments.
- Up to a diameter of 25, the pipes are rigid socket pipes at one end. Diameters 32 - 40 are fitted with a coupling.
- 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	dn	di min	length	color
4016EHF	16	12,7	3 m	light grey, black
4020HF	20	16,7	3 m	light grey, black
4025HF	25	21,0	3 m	light grey, black
4032HF	32	28,0	3 m	light grey, black
4040HF	40	35,4	3 m	light grey, black

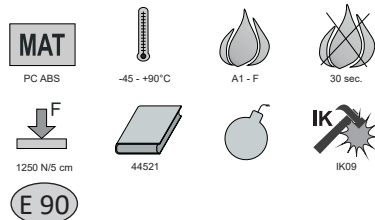


# Halogen-free rigid wiring pipes 80xxHF

high mechanical resistance



- Halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments.
- Up to a diameter of 25, the pipes are rigid socket pipes at one end. Diameters 32 - 63 are fitted with a coupling.
- 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	dn	di min	length	color
8016EHF	16	11,7	3 m	black
8020HF	20	15,7	3 m	black
8025HF	25	20,2	3 m	black
8032HF	32	27,0	3 m	black
8040HF	40	34,8	3 m	black
8050HF	50	44,2	3 m	black
8063HF	63	56,8	3 m	black

# ČSN steel threaded pipes

- 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 N: 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 min. 35 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	dn	di min	length	screw-thread
6013 N_XX	20,4	18,2	3 m	P13,5
6016 N_XX	22,5	20,3	3 m	P16
6021 N_XX	28,3	25,7	3 m	P21
6029 N_XX	37	34,4	3 m	P29
6036 N_XX	47	44	3 m	P36
6042 N_XX	54	51	3 m	P42
6013 ZNM_S	20,4	18,2	3 m	P13,5
6016 ZNM_S	22,5	20,3	3 m	P16
6021 ZNM_S	28,3	25,7	3 m	P21
6029 ZNM_S	37	34,4	3 m	P29
6036 ZNM_S	47	44	3 m	P36
6042 ZNM_S	54	51	3 m	P42
6013 EOZ	20,4	18,2	3 m	P13,5
6016 EOZ	22,5	20,3	3 m	P16
6021 EOZ	28,3	25,7	3 m	P21
6029 EOZ	37	34,4	3 m	P29
6036 EOZ	47	44	3 m	P36
6042 EOZ	54	51	3 m	P42
6013 ZN_F	20,4	18,2	3 m	P13,5
6016 ZN_F	22,5	20,3	3 m	P16
6021 ZN_F	28,3	25,7	3 m	P21
6029 ZN_F	37	34,4	3 m	P29
6036 ZN_F	47	44	3 m	P36
6042 ZN_F	54	51	3 m	P42





# ČSN steel unthreaded pipes

- 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 N: 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 min. 35 µm, high corrosion resistance - g. 4



item	dn	di min	length
6216 N_XX	22,5	20,3	3 m
6221 N_XX	28,3	25,7	3 m
6229 N_XX	37	34,4	3 m
6236 N_XX	47	44	3 m
6242 N_XX	54	51	3 m
6213 ZNM_S	20,4	18,2	3 m
6216 ZNM_S	22,5	20,3	3 m
6221 ZNM_S	28,3	25,7	3 m
6229 ZNM_S	37	34,4	3 m
6236 ZNM_S	47	44	3 m
6242 ZNM_S	54	51	3 m
6213 ZN_F	20,4	18,2	3 m
6216 ZN_F	22,5	20,3	3 m
6221 ZN_F	28,3	25,7	3 m
6229 ZN_F	37	34,4	3 m
6236 ZN_F	47	44	3 m
6242 ZN_F	54	51	3 m
6042_EOZ	54	51	3 m



# EN steel threaded pipes

- 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  $\mu\text{m}$ , 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 min. 35  $\mu\text{m}$ , 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	dn	di min	length	screw-thread
6020 ZNM_S	20	17	3 m	M20x1,5
6025 ZNM_S	25	22	3 m	M25x1,5
6032 ZNM_S	32	29	3 m	M32x1,5
6040 ZNM_S	40	37	3 m	M40x1,5
6016E_ECZ	16	13,2	3 m	M16x1,5
6020_EOZ	20	17	3 m	M20x1,5
6025_EOZ	25	22	3 m	M25x1,5
6032_EOZ	32	29	3 m	M32x1,5
6040_EOZ	40	37	3 m	M40x1,5
6050_ECZ	50	46,8	3 m	M50x1,5
6063_ECZ	63	59,4	3 m	M63x1,5
6016E_ZN_F	16	13,2	3 m	M16x1,5
6020_ZN_F	20	17	3 m	M20x1,5
6025_ZN_F	25	22	3 m	M25x1,5
6032_ZN_F	32	29	3 m	M32x1,5
6040_ZN_F	40	37	3 m	M40x1,5
6050_ZN_F	50	46,8	3 m	M50x1,5
6063_ZN_F	63	59,4	3 m	M63x1,5





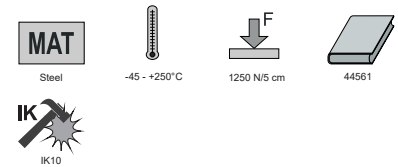
# EN steel unthreaded pipes

- 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 min. 35 µm, high corrosion resistance - g. 4



item	dn	di min	length
6220 ZNM_S	20	18	3 m
6225 ZNM_S	25	22,6	3 m
6232 ZNM_S	32	29,6	3 m
6240 ZNM_S	40	37,6	3 m
6216E_ECZ	16	14	3 m
6220_EOZ	20	18	3 m
6225_EOZ	25	22,6	3 m
6232_EOZ	32	29,6	3 m
6240_EOZ	40	37,6	3 m
6250_ECZ	50	47,6	3 m
6263_ECZ	63	60,6	3 m

item	dn	di min	length
6216E ZN_F	16	14	3 m
6220 ZN_F	20	18	3 m
6225 ZN_F	25	22,6	3 m
6232 ZN_F	32	29,6	3 m
6240 ZN_F	40	37,6	3 m
6250 ZN_F	50	47,6	3 m
6263 ZN_F	63	60,6	3 m



# Aluminium seamless pipes

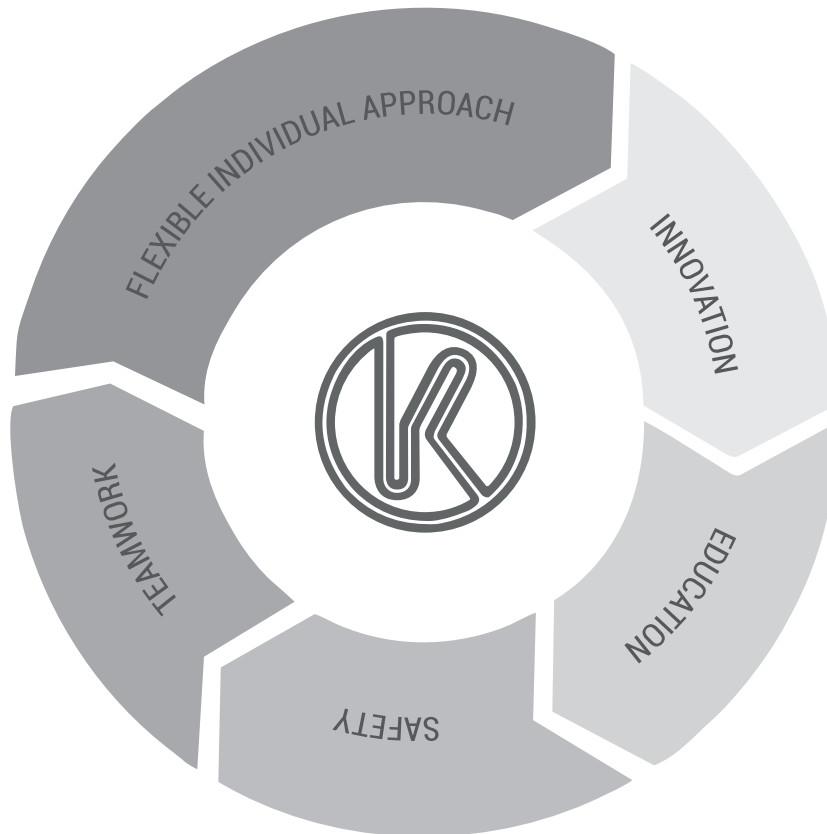


- The pipes are proper for mechanical protection of conductors and cables. They can be used for industrial installations, high anticorrosive ability – class 4.

item	dn	di min	length
6216E AL	16	14	3 m
6220 AL	20	18	3 m
6225 AL	25	23	3 m
6232 AL	32	30	3 m
6240 AL	40	38	3 m
6250 AL	50	47	3 m
6263 AL	63	59,8	3 m



# COMPANY POLICY



## INNOVATION

We continuously search for new ways leading to technology and products improvements.

## FLEXIBLE AND INDIVIDUAL APPROACH

Our customers enjoy the complex service and their requirements are solved individually. We are building a strong and long-term business partnership.

## RESPECT

We respect people as individualities. We pursue open dialogue and a common solutions. Gentleness and helpfulness promote good relationships.

## TEAMWORK

We recognize the fact that each employee contributes to the company growth; only motivated and cooperating teams become successful and continuously achieve the goals.

## EDUCATION

Expertise and skill enhancement are an integral part of the company strategy.

## SAFETY

Environmental protection, occupational safety and health are a requirements embedded in all our company activities. We comply with the strict standards of ethics and work control.

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