Safety costs money, the lack of it costs pain...

LILL

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Safety and caution equipment

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CERTIFICATES

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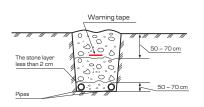
PROTECT Company is one of the leading Russian manufacturers of various kinds of crowd control and construction site fencing.

IDENTIFICATION OF UNDERGROUND UTILITY LINES

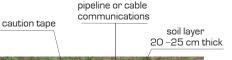
caution tape detector tape

CAUTION TAPE - LS

Caution tape provides for easy detection of buried pipeline and underground communications. It's made of the high-pressure polyethylene and has the printed warning message along its length. While excavation works in the area with underground pipeline and utility infrastructure, caution tape signals the communications installed deep in the ground. Cautiontape is widely used in Russia and other CIS countries (Commonwealth of Independent States). The caution tape, produced by PROTECT Company, meets necessary requirements for this kind of goods. Allproducts are certified according to Russian quality standards.









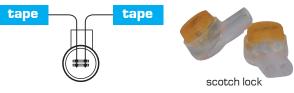
Typical diagram of caution tape laying

DETECTOR TAPE

Detector tape is a modification of ordinary caution tape. The isolatedcopper conductor, which enables effective tracing of underground infrastructure, is stitched to the caution tape in production conditions. Detector tape is generally used for laying polymer pipelines and optical fiber lines. According to custom specificationsthe detector tape with 1, 2 or 3 conductors can be manufactured (the number depends on the width of the tape). One may connect conductors ends with special scotch locks or simply twist them together and wind with PVC electrical tape (see figure below).In-house field trials of detector tape, organized by our Company, showed good results of tracing of the given tapes by the set of equipmentproduced in Russia.

Reel length, m	Width, mm	Thickness, µm	Tradename
250 / 150	200	50 / 200	Detector LSG
150	200	200	Detector LSK, LST, LSV





CAUTION TAPE GAS - LSG

Caution tape GAS is used as an underground warning signal while laying a gas pipeline. In Russia the application of caution tape is regulated by "Safety Standards for Gas Transmission and Consumption Systems PB 12–529–03".

Caution tape GAS is a yellow-colored tape with printed warning message.

Reel length, m	Width, mm	Thickness, µm	Tradename
250	200	200	LSG "Gazprom Gas Distribution
250	200	50	LSG "KEEP OUT GAS" "CAUTION GAS" "GAS"



IDENTIFICATION OF UNDERGROUND UTILITY LINES

caution tape

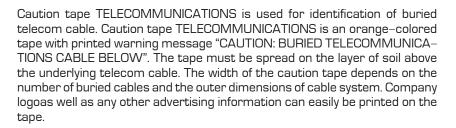
CAUTION TAPE ELECTRO-LSE



Caution tape ELECTRO is used for identification of buried electric cable. Caution tape ELECTRO represents the red-colored tape with printed warning message both in Russian and English: "ATTENTION CABLE". The width of the applied tape depends on the number of electric cables installed in particular trench. Custom legends and company details in any language can easily be manufactured to client specifications. The usage of caution tape is cost-effective. For the protection of 1 km long electric cable line one needs8 333 bricks, which makes 42 tons.Instead, one may use 10 reels of LSE-250 with a total weight of 82 kg. This simple example illustrates the fact that the application of caution tape substantially reduces material consumption.Furthermore, it should be kept in mind thatsuch additional costs as machinery maintenance expenses as well asexpenditure on loading–unloading works will be eliminated. In Russia the application of caution tape is regulated by "Regulations for Electrical Installation (PUE)".

Reel length, m	Width, mm	Thickness, µm	Tradename
100	150/250/300/ 450/600/750/ 900	300	LSE

CAUTION TAPETELECOMMUNICATIONS - LSS



Reel length, m	Width, mm	Thickness, µm	Tradename
250	40/50/75/100	300	LSS

CAUTION TAPEOPTICS - LSO

Caution tape OPTICS is used for identification of buried fiber optic cable. Caution tape OPTICS is a yellow-colored tape with printed warning message "CAUTION: BURIED FIBER OPTIC CABLE BELOW". In Russia the application of caution tape for fiber optic lines is regulated by "Regulations for Construction of Optical Fiber Lines for Railway Telecommunications Networks Applying Plastic Pipe Systems". One can get detailed information on how to use the caution tape OPTICS in "Guidelines for the Installation of Optical Cable in SILICORE HDPE Conduit". Company logoas well as any other advertising information can easily be printed on the tape.

Reel length, m	Width, mm	Thickness, µm	Tradename
500	40 / 70	100	LSO



NHO ONTWHECKING

IDENTIFICATION OF UNDERGROUND UTILITY LINES

caution tape cable protection shield

CAUTION TAPESSEWERAGE, TELEHEATING, WATER SUPPLY - LSK, LST, LSV

Caution tapes SEWERAGE, TELEHEATING, WATER SUPPLY are used for identification of underground public utilities networks. These tapes represent white–colored strips with printed warning message:

"CAUTION! SEWAGE PIPE BELOW" - in black color "CAUTION! CENTRAL HEATING PIPE BELOW" - in red color

"CAUTION! WATER SUPPLY PIPE BELOW" - in blue color

Company logoas well as any other advertising information can easily be printed on the tape.

Reel length, m	Width, mm	Thickness, µm	Tradename
250	200	200	LSK, LST, LSV







PROTECTIVE CAUTION TAPE - LZS

Protective caution tape is recommended for identification of buried electric cable lines with operating voltage levels up to 35 kV. It is produced ofsolid and durable polymer composition, provides mechanical protection of the cable from hazards and informs of underlying potentially dangerous electric distribution network. On the outer side of the bright red–colored tape LZS there is a printed warning message "ATTENTION CABLE" in two languages: Russian and English. For the protection of 1 km long electric cable line one needs 31 tons of bricks, that causes heavy–freight trucks involvement, hiring laborers and spending considerable time.Instead, one may use some reels of LZS with a total weight of 350 kg, which can be easily handled by two workers.

Reel length, m	Width, mm	Thickness, µm	Tradename
50	250	2,5 – 3,5	LZS-250
50	125	2,5 - 3,5	LZS-125





CABLE PROTECTION SHIELD – PZK

This shield serves for covering of buried electric cable lines with operating voltage levels up to 35 kV. It provides protection from mechanical hazards and warns against the danger of electric shock, potentially threatening to the construction workers, who labourin the immediate vicinity of high voltage cable lines. Depending on its size, cable protection shield PZK can replace up to 8 bricks. In Russia the usage of shields PZK is regulated by "Regulations for Electrical Installation (PUE)" and "Instructions onAcceptance of New Distribution Point, Transmission Substation and Cable Lines (1-B-3)". Operational period is 50 years.

Reel length, m	Width, mm	Thickness, µm	Tradename
480	240	16	PZK 240x480x16
480	360	16	PZK 360x480x16
480	480	16	PZK 480x480x16

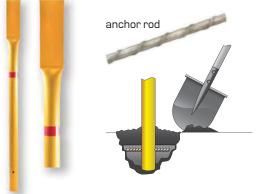


www.npoprotect.ru / протэкт.pф | www.npoprotect.com.ua | www.npoprotect.kz

IDENTIFICATION OF UNDERGROUND UTILITY LINES

pipeline markers

PIPELINE MARKER FOR UNDERGROUND GAS PIPELINE - SOG



Gas pipeline marker serves as overgroundcaution sign of buried gas pipeline location. It is made of bright yellow-colored polyethylene. Gas pipeline marker represents a pipe with pressed flat top, which serves for fixing of a caution plate. One can securely fix the marker on the ground with the help of an anchor rod. Operational life is not less than5 years. Doesn't require any maintenance like painting, straightening and such.

Diameter, mm	Height, mm	Tradename
108	2500	SOG
83	1800 / 2200	SOG

PIPELINE MARKER FOR UNDERGROUND TELECOMMUNICATIONS CABLE LINE - SOS



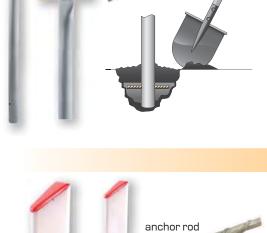
Telecom cable line marker serves as overgroundcaution sign of buried fiber optic cable line location. It is made of white-colored polyethylene and has two black marks. Telecom cable line marker represents a pipe with pressed flat top, which serves for fixing of a caution plate. One can securely fix the marker on the ground with the help of an anchor rod. Operational life is not less than 5 years. Doesn't require any maintenance like painting, straightening and such. It's possible to fasten a caution plate to the marker's top.

Diameter, mm	Height, mm	Tradename
83	2200 / 2500	SOS

CABLE LINE MARKER WITH PLATE-SKT

Cable line marker (SKT) serves for indication of buried cable lines. At it's top a caution plate is fixed.

Diameter, mm	Height, mm	Tradename
83	1600	SKT



anchor rod

10

PIPELINE MARKER FOR UNDERGROUND ELECTRICCABLE LINE - SOE

Electric cable line marker serves as overgroundcaution sign of buried electric cable line location. It is made of white-colored polyethylene and has a red cover. The marker has a triangular cross section. Its height is 1.2 m. One can securely fix the marker on the ground with the help of an anchor rod. Operational life is not less than 5 years. Doesn't require any maintenance like painting, straightening and such.

Height, mm	Tradename
1200	SOE



CROWD CONTROL & ROAD CONSTRUCTION SAFETY EQUIPMENT

safety tape

SAFETY EQUIPMENT

PROTECT is one of the leading Russian manufacturers of variouscrowd control& road construction equipment such as:

- safety& custom tape
- plastic safety fence
- traffic cones
- plastic marker posts &marker bases
- building safety net
- protective & signal traffic lights



SAFETY TAPE-LO

Safety tape is the most attractive and widely spread warning tool. It's very popular due to its usability, bright colors and reasonable price. Safety tape is used for various kinds of roadwork (road surface repairs, any work conducted in close proximity of travel way, clearing theroad debris from the crash), utility works, marking off an unsafe route and holding mass events. Safety tape is made of HDPE (high–density polyethylene) with addition of light stabilizer. This composition ensures tape's being durable, resilient and tear–proof.

0	6	0
SS.		

LO Econom LO Standard

Roll length, m	Tape width, mm	Tape thickness, µm	Trade name
200	50/75	35	LO Econom
100/250/ 500	75	50	LO Standard
250/500	75	50	LO Standard with printed text
250	75/100	50	LO Standard with printed text referring to the range of the state services



CUSTOM SAFETY TAPE

Customsafetytapeperforms two basic functions: laying out boundaries and outdoor advertising.lt is used for:

- fencing territory for prestige advertising, sports& cultural events
- marking area, which belongs to the customer

- pointing out a route for cultural or sports activities organized by the customer

CustomSafetytapeis producedin accordance withparticular customer's needs, i.e. with the given thickness, roll length and width.The minimum order is 10 000 m.The customer's logo and text is printed in conformity with the given design.

Roll	Tape	Tape	Trade name
length, m	width, mm	thickness, µm	
from 100 to 500	from 40 to 900	from 35 to 300	LO



CROWDCONTROL & ROAD CONSTRUCTION SECURITY EQUIPMENT

traffic cones, plastic marker posts & marker bases

TRAFFICCONES - KC



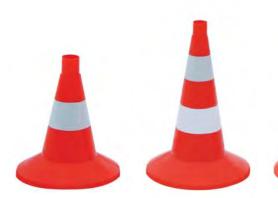
Traffic cones are used to create separation or merge lanes during road construction projects or automobile accidents, indicate parking place, organize cultural & sports mass events. A resilient material used for manufacture of the cones guarantees their restoring after mechanical deformation. Operating temperatures intervalextends from - 30°C to + 60°C. The following options are available:

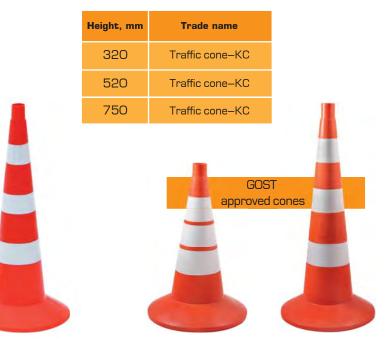
- white collar
- reflective collar
- white & reflective collars

- top opening 40mm diam. One can insert plastic marker post or cone topper light into it.

Traffic cones have compact round base. If needed, the cones may be supplied with heavy base and cone topper light.







PLASTIC MARKER POSTS & MARKER BASES, METAL POSTS

One can quickly construct security fence in any area, if plastic marker posts are at hand. The orange-colored HDPE (high-density polyethylene) is used for their extrusion. Plastic marker posts may have two retroreflective sheeting stripes. A rubber base or a metal support, which are available for purchase separately, serve as a foundation for the plastic marker post. Our marker posts satisfy the requirements of Russian "Traffic & Roadwork Safety Rules". Polymeric markerbase has 40 mm diam. opening in the middle, into which the marker post can be securely inserted. Metal posts with the hooks, welded on their tops, may also be used as a support for safety fence.

Diameter, mm	Height, mm	Trade name
40	1200/1500/ 1800/2000	Orange plastic marker post
-	350	R-shaped metal support for marker post
-	1300/1500	Metal post with welded hook



CROWD CONTROL & ROAD CONSTRUCTION SECURITY EQUIPMENT

safety fencing

WARNING SAFETY FENCE

Multifunctional, usable and affordable – plastic safety fence features long–lasting service, rot–proof, corrosion–proofand resistance to UV–rays. Being lightweight and heavy–duty the plastic safety fence is easy to install, pleasant to be dealt with and comfortably portable. Safety fence may be supplied with the set of locking ties & posts (plastic marker posts, rubber marker bases or R–shaped metal supports for marker posts).

- Safety fence can be used
- to demarcate a construction site
- to indicate the place f open excavations
- to fix boundaries while land surveying

 to enclose the area, where neighbourhood improvement or landscape gardening is executed

— as a warning barrier to mark the most hazardous parts of multy–storied building

Road construction and maintenancecauses the necessity to handle traffic, i.e. separate or merge traffic flows. Alongside with the common safety equipment, such as traffic cones and safety tape, safety fence can present reliable protection and warning system, which provides vehicles and pedestrians safety. Safety fence is harmless and due to its bright color is visible in almost any kind of light. Police and rescue service use plastic safety fence to block out the scene of anincident, a hazard or a damaged object. According to the valid GOST 23407–78 "Technical Instructions for the Safe Construction Site and Installation Work" all the land–based worksites must be demarcated!

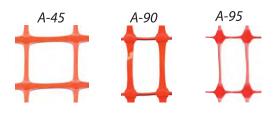
Roll length, m	Width, m	Cell size, mm x mm	Trade name
25	1,3/2	45x40	Safety Fence A-45
50	1	90x45	Safety Fence A-90
20/50	1/1,2	95x45	Safety Fence A–95

BUILDING SAFETY NET

Building safety net arrests falling objectsfor the safety of people beyond or below the net. Besides it serves as an aesthetic shield. Building safety net doesn't have any metal parts. Knittedwith heavy–duty HDPE threads the building safety net has an integral–knitted holes, placed in the middle and along the edges, which help to fix the net on the scaffolding and to prevent the sail effect. Due to its solidity and usability building safety net allows multiple usage.

- Atthe construction site it can be used
- to shield construction scaffold
- to prevent hazardous falling of the tools and building materials from heights
- to hamper building dust and debris from polluting environment
- to cover work area against heavy precipitation

Rollwidth & length, mxm	Cellsize, mmxmm	Trade name
4x100	1,5x10	FU-35
3x100	5x2	FU-55
3x50	1,5x1,5	FU-72
3x50	8x1	FU-80









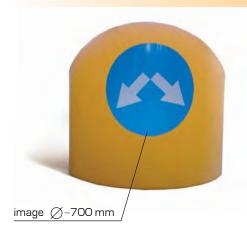




ROAD TRAFFIC CONTROL MEANS

road maintenance solutions

PLASTIC TRAFFIC BOLLARD



Plastic traffic bollard can be installed in the points, where two carriageways split, as well as serve for visual guidance, in case some indication of a roadblock (a bridge, potholes, roadworks and such)is needed. It's manufactured fromhigh-strength bright yellow-colored polyethylene, UV-stabilized and resistant to bleaching. Operating temperatures interval extends from – 30oC to + 60oC. Design of the bollard allows filling it with water or sand, that enhances its steadiness and its ability to withstand severe impacts of vehicles. Plastic traffic bollard may come both with a traffic sign image KEEP LEFT OR RIGHT (a PET sticker) and without it.

Length, mm	Width, mm	Height, mm	Trade name
1200	920	1250	BUFFER

SEPARATOR BARRIER- BV-1.2; NESTING SEPARATOR BARRIER - BVV-1.2 (2.0)



Separator barriers are used for dividing traffic lanes and directing traffic, in addition, they may serve as temporary fencing for road construction site. They are manufactured fromhigh–strength polyethylene, UV–stabilized and resistant to bleaching. Operating temperatures interval extends from – 30° C to + 40° C. Produced in two basic colors: whiteandred. A ballast in the form of water or sand can be added through the special hole at the top (the stopper is enclosed) to make the barriers a more permanent fixture. Another hole at the bottom allows barrier's emptying.



Length, mm	Width, mm	Height, mm	Trade name
1200	500	750	BV-1.2
1200	500	700	BVV-1.2
2000	500	700	BVV-2.0

SPEED REDUCTION HUMP - IDN PROTECT

The item consists of center sections and end caps. Into the hollows on the center section one may stick retroreflective stripes or thermally fix yellow–colored rubberinserts. All the items have fixing holes for fastening to the road surface with anchor bolts. Speed reduction hump is made of black rubber. The outer layer is produced from tire rubber with grainy surface.





Length, mm	Width, mm	Height, mm	Trade name
500	500	50	IDN-500 PROTECT center section
500	250	50	IDN-500 PROTECT end cap
900	500	50	IDN-900 PROTECT center section
900	250	50	IDN-900 PROTECT end cap

PROTE

ROAD TRAFFIC CONTROL MEANS

road maintenance solutions

VERGE MARKER POST – SDS, SDSU

These verge markers are the safe and effective method of highlighting road edges, bends etc. They are manufactured in white-coloredhigh-density polyethylene. Features red or white reflectormade of retroreflective film. The marker represents a pipe with triangular cross section. One can securely fix the marker on the ground with the help of any anchor fastener or place it on the top of road barrier. Operational life is not less than5 years.

Height, mm	Trade name
1500	SDS
1300	SDSU



FLEXIBLE ROAD MARKER POST

Flexible road marker posts can be installed on the road, dividing strips or traffic islands; they can be used to delineateparking space and such.Our road marker posts are produced from resilient red-colored polymer, which makes them able to spring back into shape after bending or being compressed by a vehicle. One can use them at any temperature between – 50° and + 50° C. Flexible road marker posts come with reflective bands. They can be attachedwith anchor bolts (recommended) or glued with two-component epoxy adhesive to the asphalt or concrete surface.Posts service lifesatisfies GOST requirements and makes 2 and more years depending on operating conditions.





TRAFFIC SIGNS

Traffic signs are signs erected at the side of or above out-of-townroads as well as in town streets. They are designed to warn drivers and pedestrians against hazardous area, to give instructions or provide information on the current restrictions or other specific traffic conditions.



PROTECTIVE & SIGNAL TRAFFIC LIGHTS

Protective & Signal Traffic Lights make roadwork safety barrier more visible at night due to light emitting. They can be installed both on stationary and temporary safety barrier. The light–emitting routine is managed by an electronic card. Traffic light has two light filters: yellow and red. The device goes on automatically at dusk. Pulse repetition frequency is 0.5 Hz. Operates on 2 "R2O" batteries (not supplied with the device). Traffic light can be attached in two ways: hanged by the metal loop on its top or placed into a slot with the handle in its bottom. One can connect some traffic lights into protective illuminations using wires.Traffic light cannot be fixed on the top of plastic marker post,but can be secured on the ordinary traffic cone when its top is cut off.

Dimensions, mm	Trade name
350x180	PROTECTIVE TRAFFIC LIGHT
length 150,130	SIGNAL LANTERN FS-4.1, FS-12







we inspire you for creation of comfortable environment



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