



ADVANCED MATERIALS RELIABLE CONNECTIONS

HIGH PERFORMANCE MATERIALS
FOR THE CABLE INDUSTRY

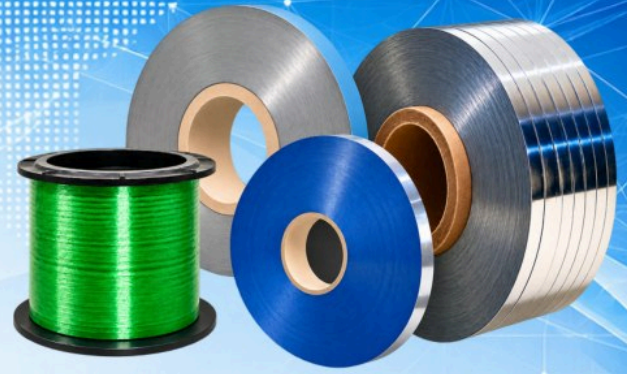


DATA CABLES. AUTOMOTIVE. INDUSTRIAL. POWER CABLES. FIBER OPTIC. SUBSEA

INNOVATION. QUALITY. PERFORMANCE.

www.kemaite.de

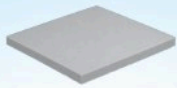
COAXMATE®



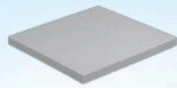
»»» DESCRIPTION

The COAXMATE® laminates family consist of Foil/Film, Foil/Film/Foil and Foil/Film/Film etc. It is applied to the shielding layer of communication cable, which can effectively reduce the leakage of internal signal transmission and reduce the external electromagnetic radiation. The feature of LUBRITAPE® can effectively reduce the friction coefficient of the tape to reduce the mold loss, improve the production efficiency and electrical performance of the cable.

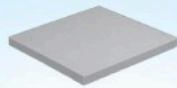
»»» SINGLE LAYER



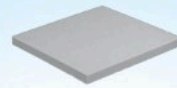
AL foil



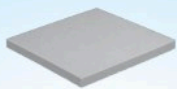
PET



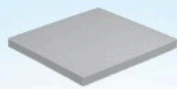
PET corrugated



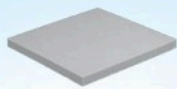
PET printed



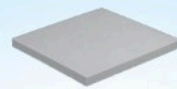
PVC



TPU



PP-C

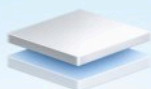


PP-F

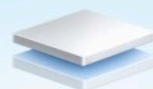
»»» TWO LAYERS



AL/PET (free edge)



AL/PP



AL/PTFE



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads

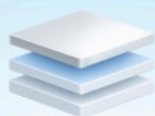


Spools

COAXMATE®



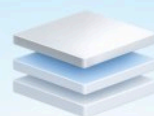
»»» MULTI LAYERS



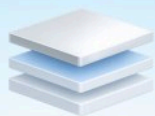
AL/PET/AL



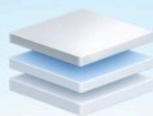
AL/PET/EAA



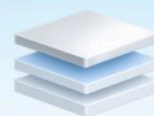
AL/PP/AL



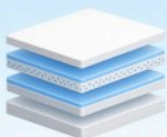
PET/AL/PE



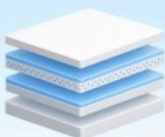
PET/AL/PET



PP/AL/PP



AL/PET/AL/EAA



AL/PP/AL/EAA



Rolls



Pads



Spools



Keep
Clean



No Direct
Sunlight

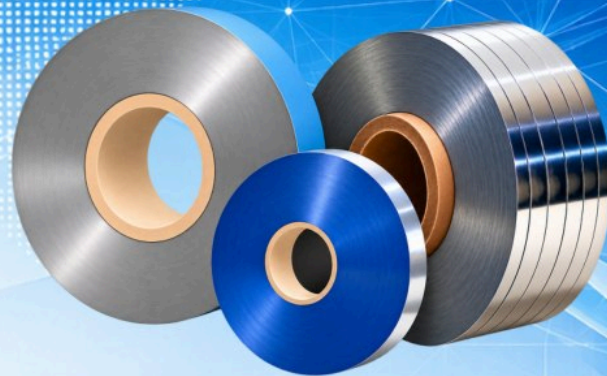


Keep
Dry



6 Months
Self Life

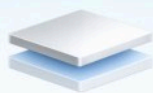
LUBRITAPE®



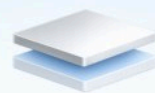
»»» DESCRIPTION

The LUBRITAPE® laminates family consist of Film/Foil/Coating, Foil/Film/Foil/Coating and Coating/Foil/Film/Foil/Coating etc., with features of shielding performance, effectively reduce the friction coefficient of the tape to reduce the mold loss, improve the production efficiency and electrical performance of the cable. It is applied to the shielding layer of communication cable, which can effectively reduce the leakage of internal signal transmission and reduce the external electromagnetic radiation.

»»» TWO LAYERS

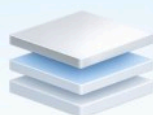


Lubr./AL/PET

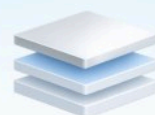


Lubr./AL/PVC

»»» MULTI LAYERS



AL/PET/AL/Lubr.



AL/PP/AL/Lubr.



Lubr./AL/PET/AL/Lubr.



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



*Lubr. =
Lubricant Coating



Rolls

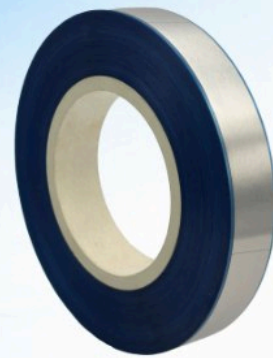


Pads



Spools

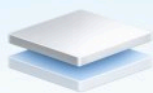
SEGTAPE®



»»» DESCRIPTION

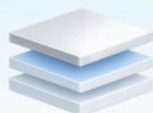
The SEGTAPE® can reduce static electricity accumulation by cutting aluminum foil surface with high precision laser or chemical etching, it provides cable performance and reduce cost effectively. Widely used in 10Gbits/s or above level of Ethernet integrated wiring solutions.

»»» TWO LAYERS

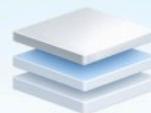


Discontinuous
AL/PET

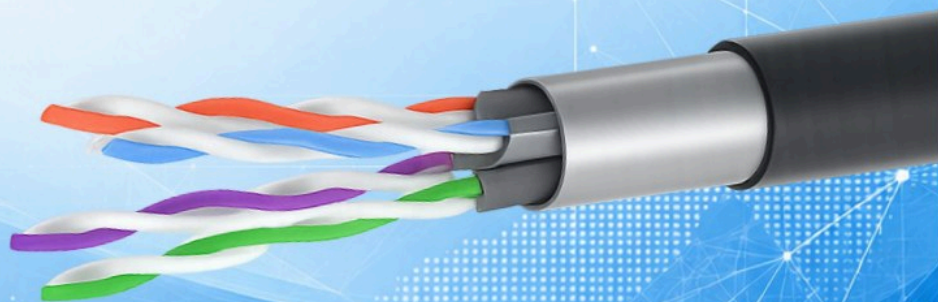
»»» MULTI LAYERS



Discontinuous
AL/PET/AL



Discontinuous
PET/AL/PET



Rolls



Pads



Spools



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

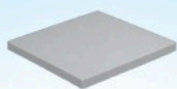
FLATEK®



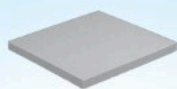
DESCRIPTION

The FLATEK® is characterized by low-smoke flame-retardant and shielded insulation of the laminates and film by modification of the flame-retardant substrate and adhesive. It is mainly used in cables with higher combustion level requirements and aviation cables.

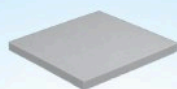
SINGLE LAYER



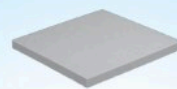
PTFE sintered



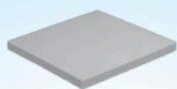
PTFE unsintered



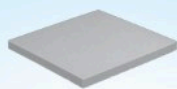
PTFE expanded



PI

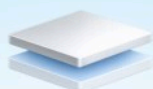


PET-FR

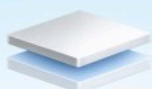


PET-HR

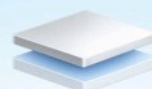
TWO LAYERS



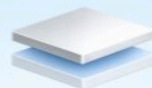
AL/PI



AL/PET-FR



PTFE/PI



PI/PEP



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads



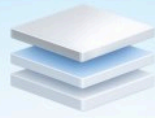
Spools

FLATEK®

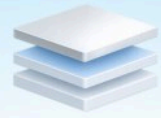
»»» MULTI LAYERS



AL/PI/EAA



AL/PET-FR/EAA



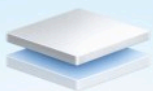
FEP/PI/FEP

FLATEK® - Jacket Tapes

»»» DESCRIPTION

Facing the extreme dynamic mechanical and special surface self-lubricating requirements for flat cable bundles in areas of industrial robots, medical interventional instruments, semiconductor manufacturing equipment and aerospace special instruments, KEMAITE creatively developed new laminates. It fulfilled the above-mentioned challenges with additional high dielectric and weathering performance. Such structure products are able to be varied and adjusted according to other similar application case.

»»» TWO LAYERS



PTFE/TPU



PTFE/TPU



Rolls



Pads



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

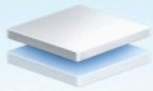
FUSITAPE®



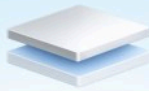
»»» DESCRIPTION

The FUSITAPE® hot melt tape for high-speed copper cables is made by precisely coating various functional hot melt adhesives on the surface of films and metals. The hot melt adhesives can be modified to have flame retardant and conductive properties. The product has excellent bonding and shielding insulation properties, and maintains good and stable bonding properties in high temperature (125°C×1000H) or high temperature and high humidity (85°C/85%RH x 1000H) environments.

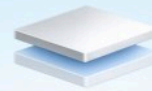
»»» TWO LAYERS



PET/HS



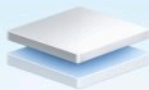
PP/HS



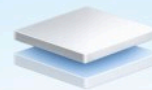
PI/HS



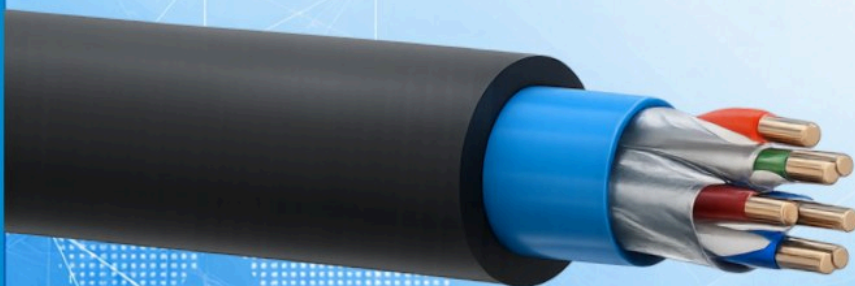
AL/PVC



VMPET/HS



CU/diamond HS



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



*HS =
Heat Seal Coating



Rolls

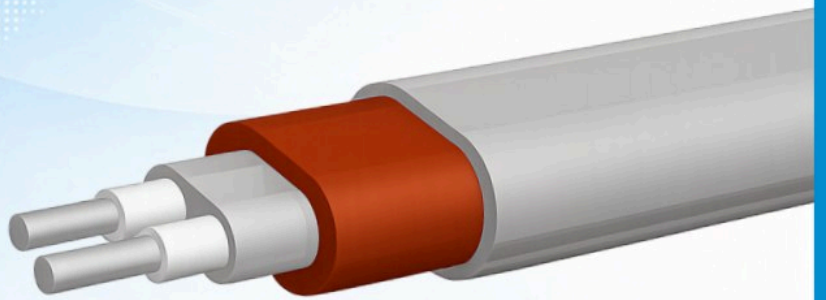


Pads

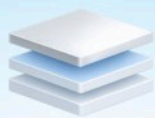


Spools

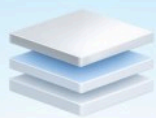
FUSITAPE®



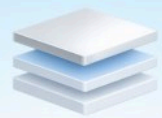
»»» MULTI LAYERS



AL/PET/PVC



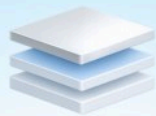
AL/PET/HS



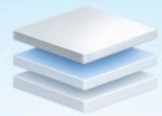
AL/PP/HS



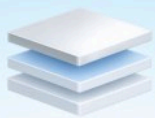
AL/PI/HS



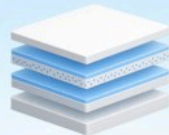
CU/PET/HS



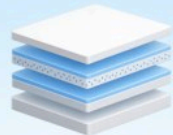
CU/PP/HS



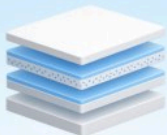
diamond HS/AL/PET



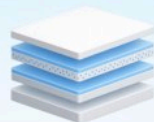
AL/PET/AL/PVC



HS/AL/PET/HS



CU/PET/AL/HS



diamond HS/AL/PET/CU



Rolls



Pads



Spools



*HS =
Heat Seal Coating



Keep
Clean



No Direct
Sunlight

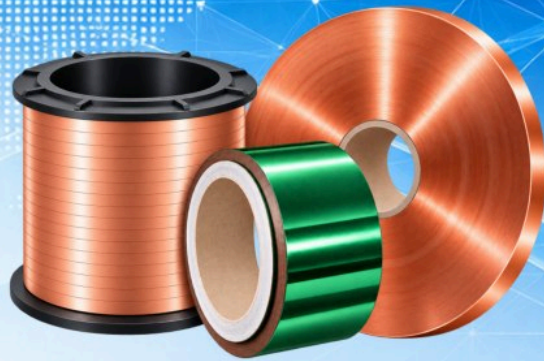


Keep
Dry



6 Months
Self Life

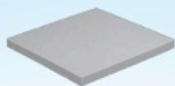
CUPEX®



»»» DESCRIPTION

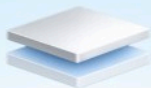
The CUPEX® Copper foil, copper lamination foil uses as shielding for low/medium voltage cables and radio frequency coaxial cable. The rolled annealing copper foil is flexible to wrap cable core, also it has the excellent physical properties, polyester film provides electrical insulation and high mechanical properties. The feature of high temperature durable copper is available.

»»» SINGLE LAYER



CU foil

»»» TWO LAYERS



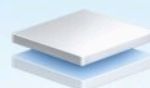
CU/PET



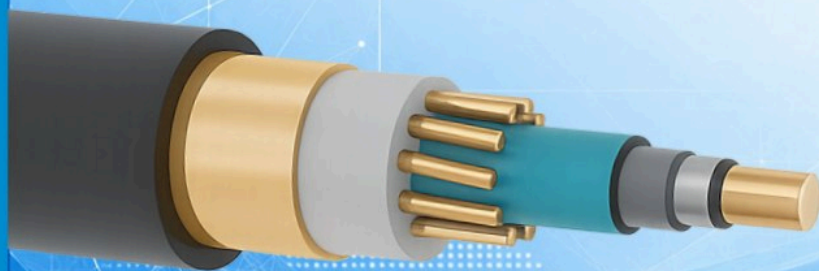
CU/PP



CU/PVC



CU/PI



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls

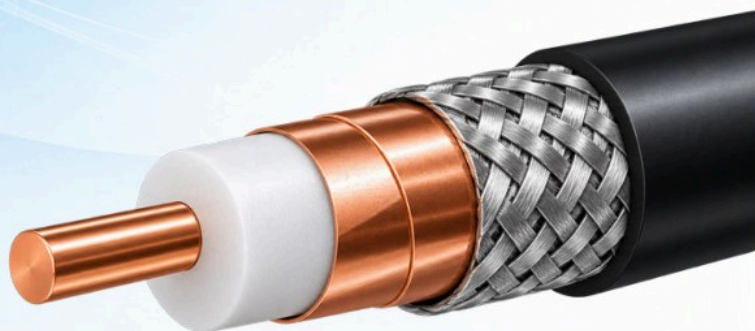


Pads

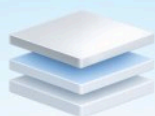


Spools

CUPEX®



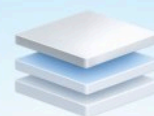
»»» MULTI LAYERS



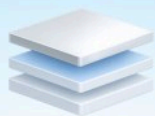
CU/PET/CU



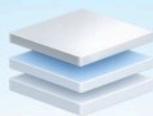
CU/PET/EAA



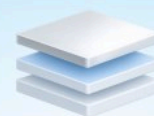
CU/PP/CU



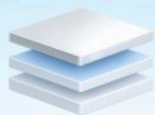
CU/PI/CU



CU/PET/PE



CU/PET/EAA



EAA/CU/PVC



PET/CU/EVA/TPU



Rolls



Pads



Spools



Keep
Clean



No Direct
Sunlight

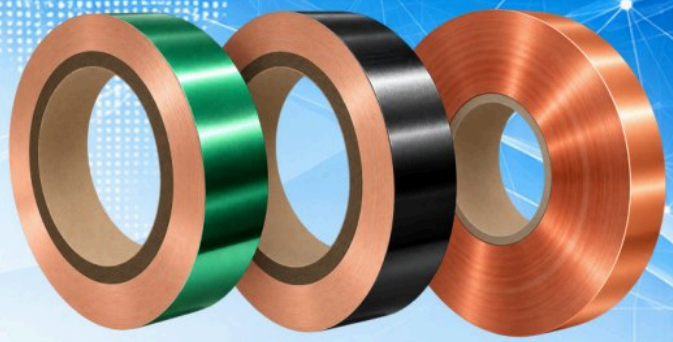


Keep
Dry



6 Months
Self Life

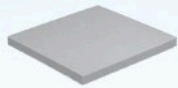
CUPEX®



»»» DESCRIPTION

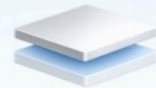
The CUPEX® applies for medium and high voltage power cables as a shield/moisture barrier or as a moisture or chemical barrier for cable core, it consists of a copper tape coated on single side with a special ethylene copolymer color coded green. The coating forms a strong moisture-resistant bond to the copper substrate that will not delaminate from contact with the copper. The coatings also form strong polymeric bonds to zero halogen, polyethylene and chlorinated polyethylene jacketing resins during the jacket extrusion process thereby allowing fabrication of "bonded jacket" or laminate sheath cables. The copper is fully annealed which has high conductivity and easy fabrication characteristics.

»»» SINGLE LAYER



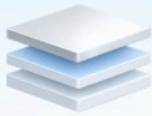
CU tape

»»» TWO LAYERS

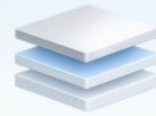


CU/COPO

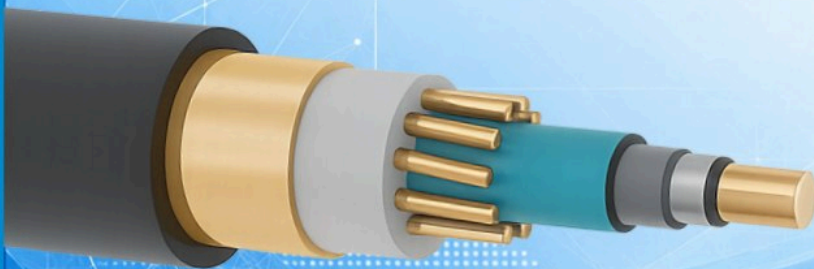
»»» MULTI LAYERS



COPO/CU/COPO



SC-COPO/CU/COPO



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



*SC =
Semi Conductive

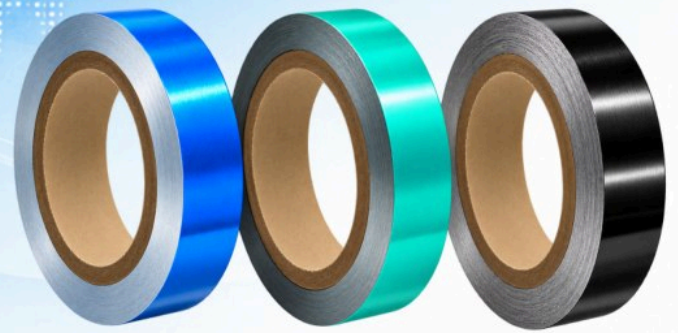


Rolls



Pads

ALPHA BOND®



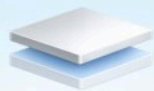
»»» DESCRIPTION

The ALPHABOND® aluminum copolymer laminates are used for shielding moisture layer of communication cables and lightning protection layer for power cables. The product is made by aluminum strip with good ductility and copolymer film, the copolymer film has excellent adhesive properties with the jacket and the aluminum tape.

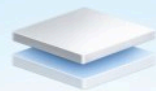
»»» TWO LAYERS



AL/COPO



AL/PVC

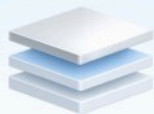


AL/SC-COPO

»»» MULTI LAYERS

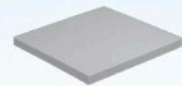


COPO/AL/COPO

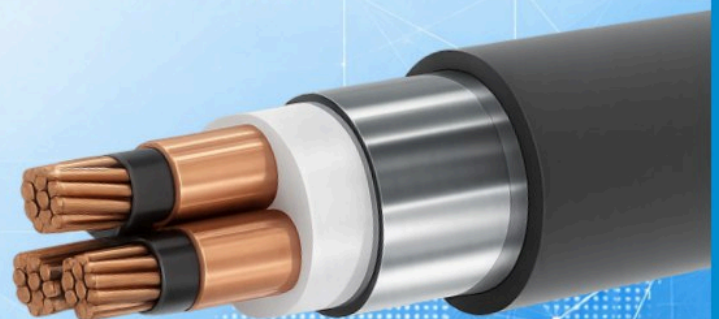


SC-COPO/AL/COPO

»»» SINGLE LAYER



AL tape



Rolls



Pads



*SC =
Semi Conductive



Keep
Clean



No Direct
Sunlight

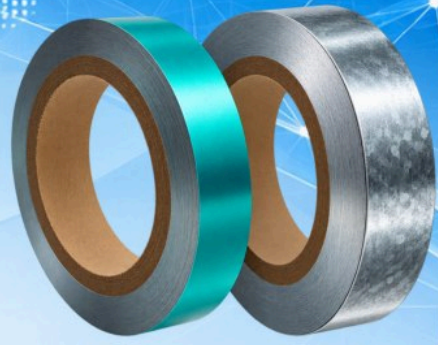


Keep
Dry



6 Months
Self Life

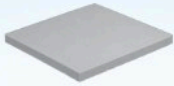
ALPHABOND®



»»» DESCRIPTION

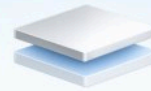
The ALPHABOND® steel Copolymer Laminates consists of a steel tape coated on both sides with an adherent ethylene copolymer. The copolymer exhibits excellent adhesion to the steel substrate and has the chemical resistance and general characteristics of lower density polyethylene, it bonds to low, linear low, medium and high-density polyethylene. The steel is low carbon, electronic chrome-coated steel tempered to T-2 condition for excellent formability and fabrication characteristics.

»»» SINGLE LAYER



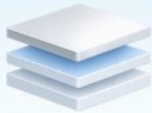
Galvanized
Steel Tape

»»» TWO LAYERS

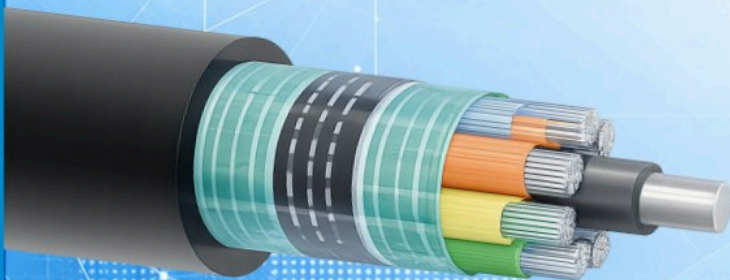


Steel/COPO

»»» MULTI LAYERS



COPO/Steel/COPO



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads

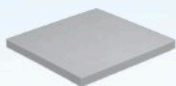
Fiberglass Tapes



»»» DESCRIPTION

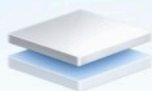
The fiberglass tape has feature of flame-retardant, it can be laminated with film after being processed by a special coating to achieve the reinforcing effect, it has the characteristics of light weight, no delamination, no wrinkles, no debonding, and uniform winding. Mainly used for wrapping aluminum alloy conductors of UI854 service entrance cable.

»»» SINGLE LAYER



Fiberglass Tape

»»» TWO LAYERS



PET/Fiberglass



Rolls



Pads



Keep Clean



No Direct Sunlight



Keep Dry



6 Months Self Life

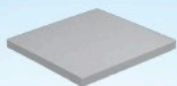
Mica Tapes



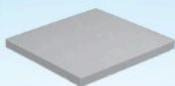
»»» DESCRIPTION

Phlogopite Mica Tape for fire-resistant cable consist of the heat resistant Phlogopite mica paper bonded to an electrical grade glass cloth as the supporting fabric, impregnated with a specially selected high temperature resistant silicon resin. For the excellent flame resisting characteristics, it has been widely used for power and control cables, instrumentation and signaling cables etc. Due to the very high flexibility and high tensile strength, this tape can be easily applied with high speed standard wrapping equipment.

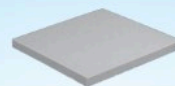
»»» SINGLE LAYER



Mica Tape
Phlogopite

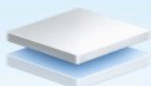


Mica Tape
Muscovite



Mica Tape
Synthetic

»»» TWO LAYERS



Mica/PET



Mica/PP



Mica/PI



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads

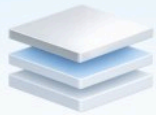


Spools

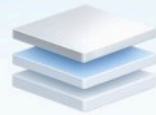
Mica Tapes



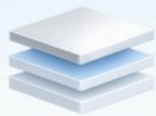
»»» MULTI LAYERS



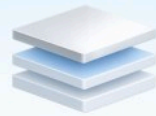
Mica/PET/Glue



Mica/PI/Glue



PET/Mica/PET



PI/Mica/PI



Rolls



Pads



Spools



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

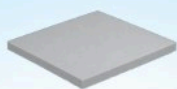
Non-Woven Tapes



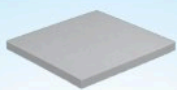
DESCRIPTION

Non-woven tapes consist of polyester fiber and adhesive, with features of high tensile strength, high insulation performance and no corrosion. It is mainly used as cable wrapping and lining of rubber-sheathed cables, power cables, special cables, communication cables, coaxial cables, audio cables and optic cables.

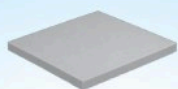
SINGLE LAYER



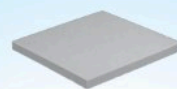
NC-NW Tape



NC-NW Tape
Reinforced

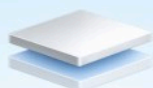


SC-NW Tape



FR-NW Tape

TWO LAYERS

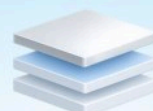


NW/PET

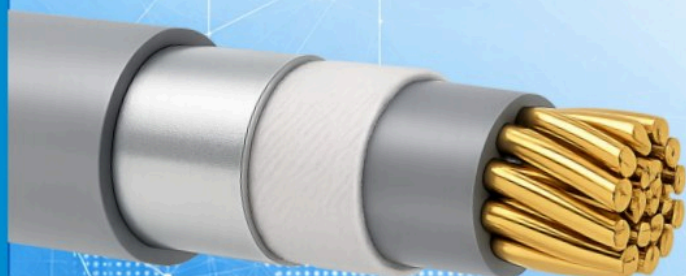
MULTI LAYERS



NW/PET/Glue



NW/PET/NW



*FR =
Flame Retardant



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads



Spools



*SC =
Semi Conductive

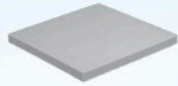
Water Blocking Tapes



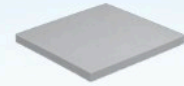
»»» DESCRIPTION

It has the characteristics of high expansion pressure and speed, good thermal stability, and prevents water and moisture from spreading longitudinally as a water blocking function, ensuring the transmission performance of the optical fiber and prolonging the life of the optical cable.

»»» SINGLE LAYER

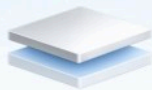


NC-WB Tape



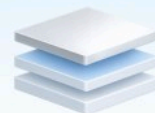
SC-WB Tape

»»» TWO LAYERS

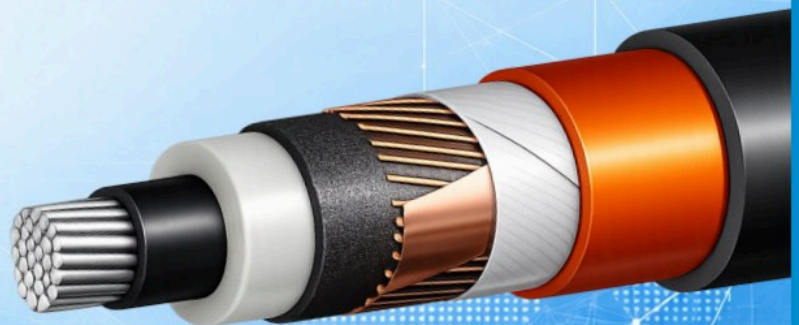


WB/PET

»»» MULTI LAYERS



AL/PET/WB Coating



Rolls



Pads



Spools



*SC =
Semi Conductive



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

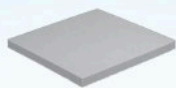
Woven Nylon Tapes



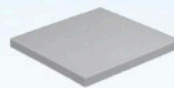
»»» DESCRIPTION

In cable manufacturing, woven nylon tapes are used as non-conductive, semi-conductive and waterblocking wrapping layers. They provide mechanical protection, enhance tensile strength, improve structural stability, and serve as separation or cushioning layers in cables of all voltage classes, including power cables and specialty cables.

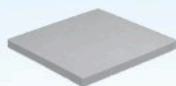
»»» SINGLE LAYER



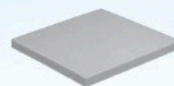
Woven Nylon Tape



SC-Woven Nylon Tape



Woven Water Blocking
Nylon Tape



SC-Woven Water
Blocking Nylon Tape



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



*SC =
Semi Conductive



Rolls



Pads

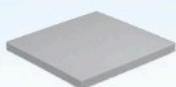
Woven Cotton Polyester Tapes



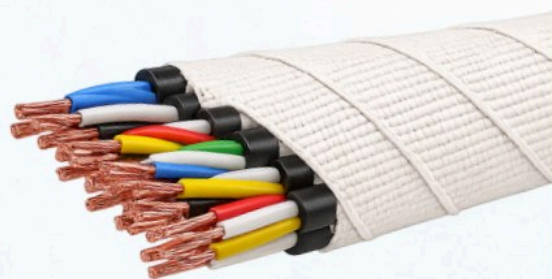
»»» DESCRIPTION

The woven cotton-polyester tape serves as a wrapping or protective layer and is applied spirally around the cable assembly. It is used to stabilize the structure and acts as a separating or protective layer between different cable components.

»»» SINGLE LAYER



Woven Cotton
Polyester Tape



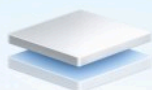
Reflective Tapes



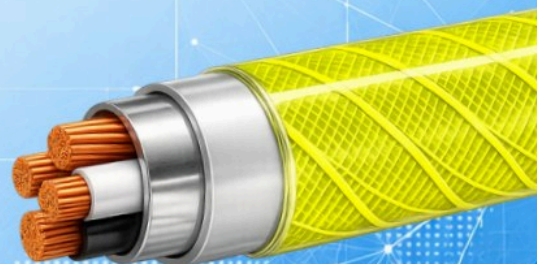
»»» DESCRIPTION

Crystal grid reflective film is a retroreflective material composed of PVC and micro-prismatic reflective layer. It delivers excellent retroreflective performance and complies with environmental requirements, widely used for outdoor billboards, construction barriers and temporary traffic signs.

»»» TWO LAYERS



PVC/Micro-Prismatic
Reflective Layer



Rolls



Pads



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

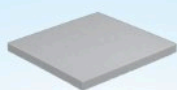
Insulation Papers



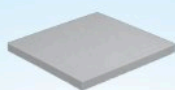
DESCRIPTION

Kraft papers consist of Kraft paper, adhesive and polyester film, with features of high tensile strength, high insulation performance and light-weight. It is mainly used between the sheath of low-voltage cable and the outer back insulating material of copper conductor to play a good barrier role.

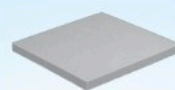
SINGLE LAYER



Kraft Paper



Crepe Paper



Aramid Paper

TWO LAYERS

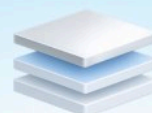


KP/PET

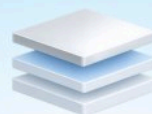


AP/PET

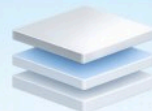
MULTI LAYERS



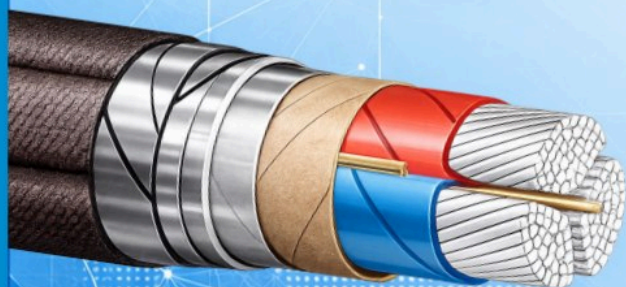
KP/PET/KP



AP/PET/AP



AP/PI/AP



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Rolls



Pads

Water Blocking Polyester Yarn



»»» DESCRIPTION

The Water blocking yarn used for communication optical cables is composed of polyester industrial filament and cross-linked polyacrylic expansion material. It has good water resistance and can effectively prevent moisture from penetration into the interior of the cable. It has high durability and meets long-term usage needs.



Water Blocking Polyester Yarn



PACKAGING

Format	Core ID	Core Material	Core Width	OD	Length	Joint
Spool	95 mm	Paper	220 mm	220 mm	4700 m	No



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

Polyester Binding Yarn



DESCRIPTION

This high-performance polyester yarn is specifically designed to secure cable components in fiber optic cables, ensuring structural integrity and long-term stability. Available in flat, low, or ultra-low shrinkage variants, it effectively prevents damage to optical fibers under diverse environmental conditions. With high tensile strength and excellent dimensional stability, it provides reliable performance in harsh environments while maintaining consistent fiber protection.



Polyester Binding Yarn

PACKAGING

Format	Core ID	Core Material	Core Width	Winding Width	OD	Color
Spool	95 mm	Paper	As per order	As per order	As per order	White, Black, Yellow



Keep Clean



No Direct Sunlight



Keep Dry



6 Months Self Life

Water Blocking Aramid Yarn



DESCRIPTION

The Water-blocking aramid yarn is a high-modulus aramid fiber specifically designed for ADSS cables, non-metallic cables, and indoor optical fiber cables, composed of Para-aramid yarn and Super absorbent liquid resin. With outstanding mechanical properties and tensile resistance, it effectively reinforces cable structure, enhances compression and impact resistance, while offering excellent water-blocking and corrosion-resistant performance. It serves as a premium raw material for strengthening optical fiber cables.



Water Blocking Aramid Yarn

PACKAGING

Format	Core ID	Core Material	Core Width	Winding Width	OD	Color
Spool	95/107/ 127 mm	Paper	220 mm	220 mm	As per order	Yellow



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life

Water Blocking Glass Yarn



DESCRIPTION

This product is a non-metallic composite functional material based on high-modulus glass fiber. Primarily used in communication optical cables as a core component between the sheath and core, it provides dual functions of tensile reinforcement and dry water blocking: the high-modulus glass fiber skeleton delivers excellent mechanical strength and tensile resistance, while the water-absorbent coating swells rapidly into a gel barrier upon contact with water, blocking longitudinal water penetration to realize a fully dry structure. It is widely applicable to various optical cable scenarios such as overhead, direct-buried and duct installations, with additional advantages of environmental friendliness, lightweight design and easy construction.



Water Blocking Glass Yarn

PACKAGING

Format	Core ID	Core Material	Core Width	Winding Width	OD	Color
Spool	54 - 127 mm	Paper	170 - 270 mm	150 - 250 mm	max. 270 mm	Natural



Keep Clean



No Direct Sunlight



Keep Dry



6 Months Self Life

ThermoPL Series



»»» DESCRIPTION

ThermoPL Series, a new composite material for cables, is a high thermal conductivity insulating composite material based on PE, which can be used according to customer needs. Applied to cable outer sheath, high thermal conductivity, good insulation, excellent mechanical properties characteristics.



ThermoPL Series

ThermoPL-65

Thermal conductivity
0.65 W/m·k

Tensile strength
13.8 MPa

Breakdown strength
37 kV/mm

Molding process parameters
inlet temperature: 130-140 °C
outlet temperature: 160-170 °C

ThermoPL-080-7

Thermal conductivity
0.80 W/m·k

Tensile strength
20.0 Mpa

Breakdown strength
20 kV/mm

Molding process parameters
inlet temperature: 120-140 °C
outlet temperature: 160-170 °C



Keep
Clean



No Direct
Sunlight



Keep
Dry



6 Months
Self Life



Kemaite



China

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