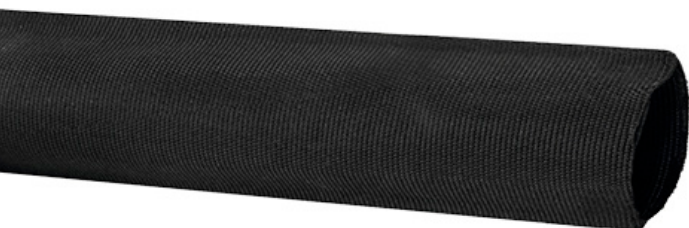
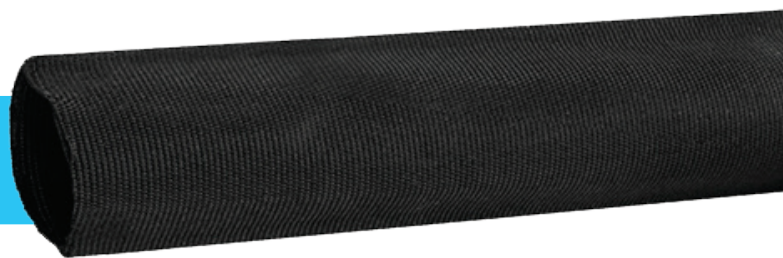


SLEEVING

Protex/PE (Polyester - MSHA Approved)

- **Application** Woven sleeve covering for hydraulic hoses
- **Standards** EN ISO 3457 - EN 4413 MSHA
- **Temperature Range** low -40°C high + 100° C
- **Material** 100% polyester
- **Thickness (double)** 1.4mm (+/- 1%)
- **Colour** Black
- **Abrasion Resistance** UNI EN ISO 12947 > 200,000 CYCLES
- **Strain at break** up 1000 daN to 4600 daN
- **UV Resistance** ISO 4892-2
- **Ozone Resistance** ISO 1431-1



Product	Description	Nominal i.d (mm)	Nominal Flat (mm)	Roll Length (mtrs)
HSPE-17	Black Protex/PE (HSPE)	17mm	30mm	100mtrs
HSPE-20	Black Protex/PE (HSPE)	20mm	34mm	100mtrs
HSPE-23	Black Protex/PE (HSPE)	23mm	39mm	100mtrs
HSPE-27	Black Protex/PE (HSPE)	27mm	45mm	100mtrs
HSPE-31	Black Protex/PE (HSPE)	31mm	52mm	100mtrs
HSPE-33	Black Protex/PE (HSPE)	33mm	55mm	100mtrs
HSPE-36	Black Protex/PE (HSPE)	36mm	60mm	100mtrs
HSPE-40	Black Protex/PE (HSPE)	40mm	66mm	100mtrs
HSPE-45	Black Protex/PE (HSPE)	45mm	72mm	100mtrs
HSPE-50	Black Protex/PE (HSPE)	50mm	80mm	100mtrs
HSPE-56	Black Protex/PE (HSPE)	56mm	89mm	100mtrs
HSPE-66	Black Protex/PE (HSPE)	66mm	107mm	100mtrs
HSPE-73	Black Protex/PE (HSPE)	73mm	118mm	100mtrs
HSPE-77	Black Protex/PE (HSPE)	77mm	125mm	100mtrs
HSPE-93	Black Protex/PE (HSPE)	93mm	149mm	100mtrs
HSPE-112	Black Protex/PE (HSPE)	112mm	179mm	100mtrs
HSPE-127	Black Protex/PE (HSPE)	127mm	202mm	100mtrs

Product	Description	Nominal i.d (mm)	Nominal Flat (mm)	Roll Length (mtrs)
HSPP-20	Black Protex/PP (HSPP)	20mm	35mm	100mtrs
HSPP-22	Black Protex/PP (HSPP)	22mm	40mm	100mtrs
HSPP-25	Black Protex/PP (HSPP)	25mm	45mm	100mtrs
HSPP-28	Black Protex/PP (HSPP)	28mm	50mm	100mtrs
HSPP-32	Black Protex/PP (HSPP)	32mm	55mm	100mtrs
HSPP-38	Black Protex/PP (HSPP)	38mm	65mm	100mtrs
HSPP-45	Black Protex/PP (HSPP)	45mm	80mm	100mtrs
HSPP-55	Black Protex/PP (HSPP)	55mm	100mm	100mtrs
HSPP-70	Black Protex/PP (HSPP)	70mm	120mm	100mtrs
HSPP-90	Black Protex/PP (HSPP)	90mm	150mm	100mtrs

Protex/PP (Polypropylene)

- **Application** Woven sleeve covering for hydraulic hoses
- **Standards** EN ISO 3457 - EN 4413
- **Temperature Range** low -40°C high + 100° C
- **Material** 100% polypropylene
- **Thickness (double)** 1.4mm (+/- 1%)
- **Colour** Black
- **Abrasion Resistance** > 25,000 cycles
- **Strain at break** up 428 to 1430 N
- **Tensile strength** up 29 to 33%
- **UV Resistance** EN 14471
- **Ozone Resistance** ISO 1431-1

Product	Description	Nominal i.d (mm)	Nominal Flat (mm)	Roll Length (mtrs)
HSVEL-20	Black Protex Strap (HSVEL)	20mm	90mm	25mtrs
HSVEL-30	Black Protex Strap (HSVEL)	30mm	135mm	25mtrs
HSVEL-40	Black Protex Strap (HSVEL)	40mm	165mm	25mtrs
HSVEL-50	Black Protex Strap (HSVEL)	50mm	200mm	25mtrs
HSVEL-60	Black Protex Strap (HSVEL)	60mm	227mm	25mtrs
HSVEL-80	Black Protex Strap (HSVEL)	80mm	295mm	25mtrs
HSVEL-90	Black Protex Strap (HSVEL)	90mm	347mm	25mtrs
HSVEL-100	Black Protex Strap (HSVEL)	100mm	360mm	25mtrs
HSVEL-120	Black Protex Strap (HSVEL)	120mm	420mm	25mtrs
HSVEL-125	Black Protex Strap (HSVEL)	125mm	430mm	25mtrs
HSVEL-150	Black Protex Strap (HSVEL)	150mm	515mm	25mtrs
HSVEL-175	Black Protex Strap (HSVEL)	175mm	595mm	25mtrs



Protex/Strap (HSVEL)

- **Application** Softwall nylon hose covering with velcro closure
- **Temperature Range** low -40°C high + 120° C
- **Material** 100% Polyamide (Nylon)
- **Thickness (double)** 1.5mm (+/- 1%)
- **Colour** Black
- **Abrasion Resistance** > 50,000 cycles

MINETEX™ (HTS) MSHA IC-312/1 Approved Printed

- **Application** Woven sleeve covering for hydraulic hoses
- **Standards** MSHA IC-312/1
- **Temperature Range** low -40°C high + 120° C
- **Material** 100% Polyamide (Nylon)
- **Thickness (double)** 1.6mm (+/- 1%)
- **Colour** Black
- **Abrasion Resistance** UNI EN ISO 12947 > 200,000 CYCLES
- **Fire Resistance** ISO 8030
- **Electrical Conductivity** ISO 8031



Product	Description	Nominal i.d (mm)	Nominal Flat (mm)	Roll Length (mtrs)
HTS-17-MINETEX	Black MINETEX™ (HTS)	17mm	30mm	100mtrs
HTS-20-MINETEX	Black MINETEX™ (HTS)	20mm	34mm	100mtrs
HTS-23-MINETEX	Black MINETEX™ (HTS)	23mm	39mm	100mtrs
HTS-25-MINETEX	Black MINETEX™ (HTS)	25mm	42mm	100mtrs
HTS-27-MINETEX	Black MINETEX™ (HTS)	27mm	45mm	100mtrs
HTS-31-MINETEX	Black MINETEX™ (HTS)	31mm	52mm	100mtrs
HTS-33-MINETEX	Black MINETEX™ (HTS)	33mm	55mm	100mtrs
HTS-36-MINETEX	Black MINETEX™ (HTS)	36mm	60mm	100mtrs
HTS-40-MINETEX	Black MINETEX™ (HTS)	40mm	66mm	100mtrs
HTS-44-MINETEX	Black MINETEX™ (HTS)	44mm	72mm	100mtrs

Product	Description	Nominal i.d (mm)	Nominal Flat (mm)	Roll Length (mtrs)
HTS-47-MINETEX	Black MINETEX™ (HTS)	47mm	77mm	100mtrs
HTS-53-MINETEX	Black MINETEX™ (HTS)	53mm	86mm	100mtrs
HTS-60-MINETEX	Black MINETEX™ (HTS)	60mm	97mm	100mtrs
HTS-66-MINETEX	Black MINETEX™ (HTS)	66mm	107mm	50mtrs
HTS-73-MINETEX	Black MINETEX™ (HTS)	73mm	118mm	50mtrs
HTS-77-MINETEX	Black MINETEX™ (HTS)	77mm	125mm	50mtrs
HTS-85-MINETEX	Black MINETEX™ (HTS)	85mm	136mm	50mtrs
HTS-93-MINETEX	Black MINETEX™ (HTS)	93mm	149mm	50mtrs