



©Atlas Copco

SPECAFlex

Customer unique mining cables for
fixed and flexible applications

 amokabel



Made in Sweden

Amokabel offers several different types of mining cables, customer unique, extra rigid and flame retardant. We have power cables designed for both fixed and flexible installations.

SPECAFlex has been designed from the ground up with safety in mind. The red inner material will be easily visible with its strong contrast to the yellow outer sheath in case of any damage to the cable. This can help prevent damage to equipment and injury to workers.

SPECA stands for:
Special **P**ower **E**lectric **C**able **A**t your request

PRODUCTS

SPECAFlex in its standard configuration
Flexible mining cable for normal applications

SPECAFlex TS

TS=Tensile **S**trength

Reinforced with a aramid core, alternatively braided between the outer and inner sheath. Suitable for applications where a higher tensile strength is desired

SPECAFlex AT

AT=Anti **T**orsion

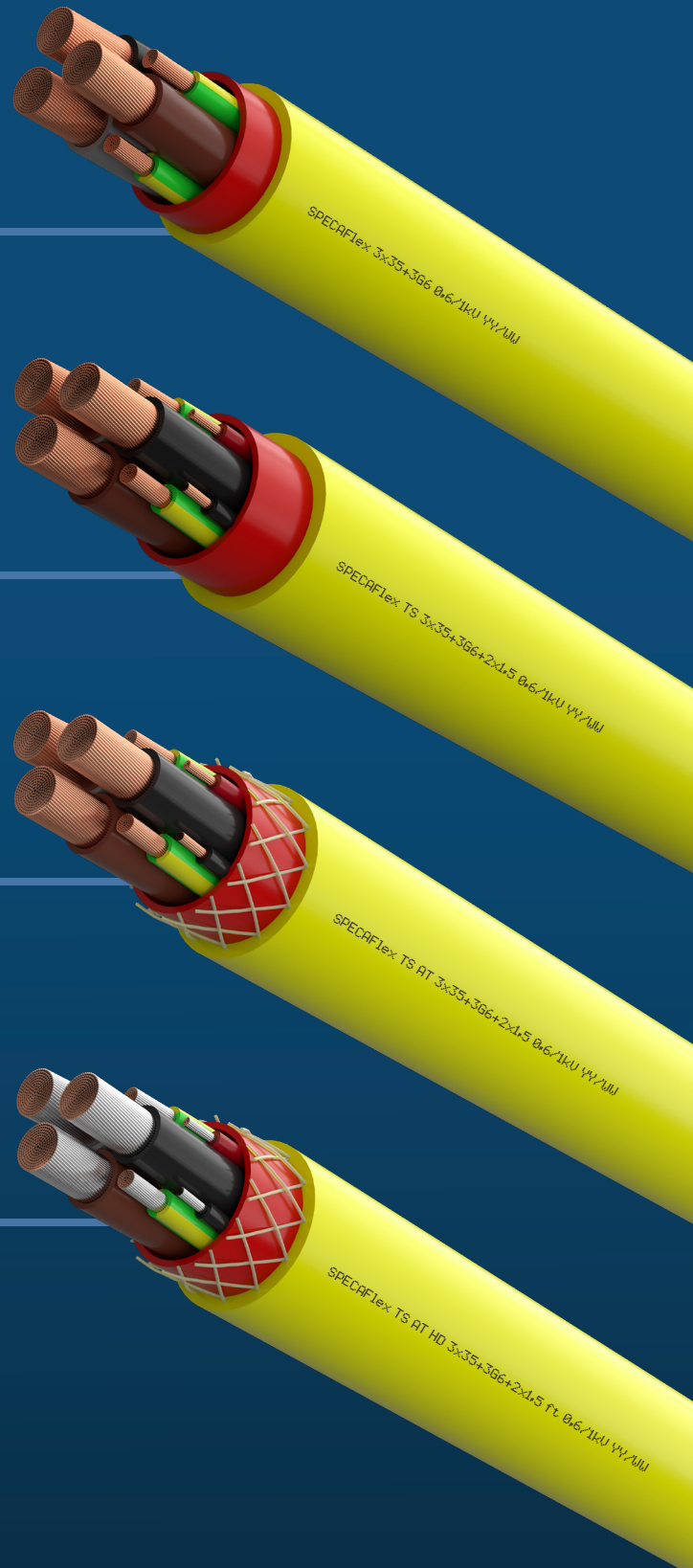
Polyester braid between the inner and outer sheath, making it a twist and wear resistant cable

SPECAFlex HD

HD=Heavy **D**uty

Extra strong and wear resistant polyurethane outer sheath for extreme conditions

TC=Tinned **C**opper



APPLICATION

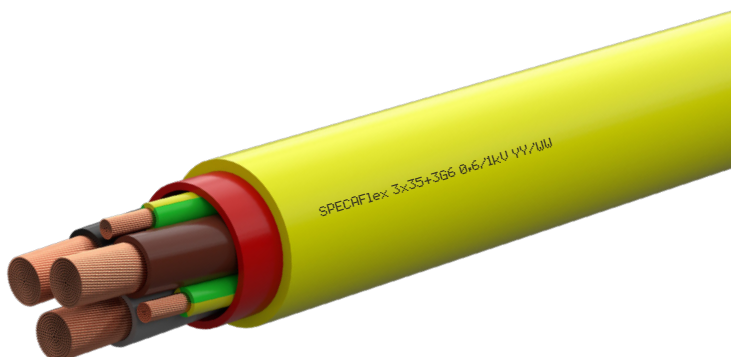
SPECAFlex is a 1kV general mining cable, suitable for a wide range of applications. Designed with class 5 flexible copper conductors, symmetrical earth conductor and a polyurethane outer jacket for good mechanical properties with high chemical resistance. The cable can be specially designed according to customer request.

PROPERTIES

Temperature range -30°C to +90°C
Voltage rating U₀/U 0,6/1kV

STANDARDS

Conductor IEC 60228-5
Construction IEC 60502-1 IAP
Flame retardant IEC 60332-1-2
Halogen free IEC 60754-1, -2
Smoke density IEC 61034-1, -2
Test voltage 3,5kV



CONSTRUCTION

Conductor	Flexible copper conductor class 5 (Tinned on request)
Insulation	XLPE (cross linked)
Core identification	Brown, Black, L-Grey + 3X Yellow/Green
Inner sheath	TPU
Outer sheath	TPU
Outer sheath colour	Yellow (or customer choice)
Marking	SPECAFlex [3xsize+3Gsize] 0,6/1kV YY/WW
Minimum bending radius fixed	6xOD
Minimum bending radius flex	8xOD
Oil/Chemical resistance	Good
Water resistance	Good
RoHS2 directive 2011/65/EU	Pass

Type code	Nom. outer diameter	Approximately Weight	Current rating, ambient temp 30°C in open air	Max. tensile load
[More sizes on request]	[mm]	[kg/km]	[A]	[N]
3X25+3X6	23,2	1070	131	1500
3X35+3X6	26,1	1370	162	2100
3X50+3X10	29,2	1900	202	3000
3X70+3X16	35,2	2720	250	4200
3X95+3X16	38,2	3350	301	5700
3X120+3X25	44,1	4360	352	7200
3X150+3X25	49,1	5230	404	9000
3X185+3X35	53,7	6510	461	11100
3X240+3X50	61,4	9130	540	14400



APPLICATION

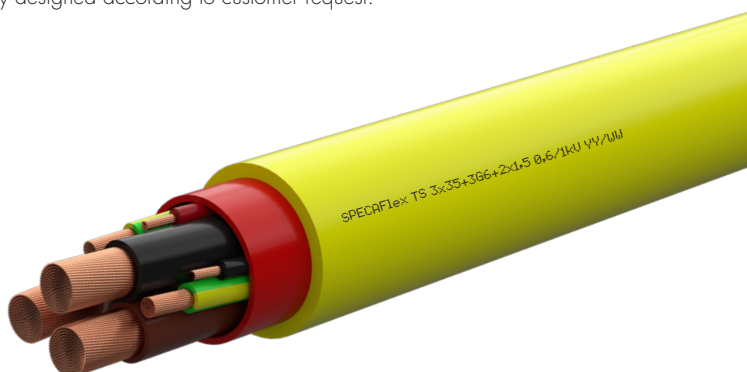
SPECAFlex TS is a 1kV mining cable, suitable for a wide range of applications. Designed with class 5 flexible copper conductors, symmetrical earth conductor, reinforced with aramid yarn for higher tensile strength and a polyurethane outer jacket for good mechanical properties with high chemical resistance. The cable can be specially designed according to customer request.

PROPERTIES

Temperature range	-30°C to +90°C
Voltage rating U ₀ /U	0,6/1kV

STANDARDS

Conductor	IEC 60228-5
Construction	IEC 60502-1 IAP
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
Test voltage	3,5kV



CONSTRUCTION	
Conductor	Flexible copper conductor class 5 (Tinned on request)
Insulation	XLPE (cross linked)
Core identification Power	Brown, Black, L-Grey +3X Yellow/Green
Core identification signal 1,5mm ²	Red, Black (or customers choice)
TS	Reinforced Tensile Strength (with aramid yarns)
Inner sheath	TPU
Outer sheath	TPU
Outer sheath colour	Yellow (or customer choice)
Marking	SPECAFlex TS [3xsize+3Gsize+2x1,5] 0,6/1kV YY/WW
Minimum bending radius fixed	6xOD
Minimum bending radius flex	8xOD
Oil/Chemical resistance	Good
Water resistance	Good
RoHS2 directive 2011/65/EU	Pass

Type code	Nom. outer diameter	Approximately Weight	Current rating, ambient temp 30°C in open air [A]	Max. tensile load
[More sizes on request]	[mm]	[kg/km]		[N]
3X25+3X6+2X1,5	23,2	1100	131	1500
3X35+3X6+2X1,5	26,1	1400	162	2100
3X50+3X10+2X1,5	29,2	1930	202	3000
3X70+3X16+2X1,5	35,2	2750	250	4200
3X95+3X16+2X1,5	38,2	3380	301	5700
3X120+3X25+2X1,5	44,1	4390	352	7200
3X150+3X25+2X1,5	49,1	5260	404	9000
3X185+3X35+2X1,5	53,7	6540	461	11100
3X240+3X50+2X1,5	61,4	9160	540	14400



APPLICATION

SPECAFlex TS+ is a 1kV mining cable, suitable for a wide range of applications. Designed with class 5 flexible copper, symmetrical earth conductor, reinforced with aramid yarn in centrum core and braid for higher tensile strength. Polyurethane outer jacket for good mechanical properties with high chemical resistance. The cable can be specially designed according to customer request.

PROPERTIES

Temperature range	-30°C to +90°C
Voltage rating U ₀ /U	0,6/1kV

STANDARDS

Conductor	IEC 60228-5
Construction	IEC 60502-1 IAP
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
Test voltage	3,5kV



CONSTRUCTION

Conductor	Flexible copper conductor class 5 (Tinned on request)
Insulation	XLPE (cross linked)
Core identification Power	Brown, Black, L-Grey + 3X Yellow/Green
Core identification signal 1,5mm ²	Red, Black (or customers choice)
Inner sheath	TPU
TS+	Reinforced Tensile Strength (aramid yarns) centrum core and braid between inner and outer sheath
Outer sheath	TPU
Outer sheath colour	Yellow (or customer choice)
Marking	SPECAFlex TS+ [3xsize+3Gsize+2x1,5] 0,6/1kV YY/WW
Minimum bending radius fixed	6xOD
Minimum bending radius flex	8xOD
Oil/Chemical resistance	Good
Water resistance	Good
RoHS2 directive 2011/65/EU	Pass

Type code	Nom. outer diameter	Approximately Weight	Current rating, ambient temp 30°C in open air	Max. tensile load
[More sizes on request]	[mm]	[kg/km]	[A]	[N]
3X25+3X6+2X1,5	24,2	1130	131	1500
3X35+3X6+2X1,5	28,0	1450	162	2100
3X50+3X10+2X1,5	30,2	1980	202	3000
3X70+3X16+2X1,5	36,2	2800	250	4200
3X95+3X16+2X1,5	39,2	3450	301	5700
3X120+3X25+2X1,5	45,1	4470	352	7200
3X150+3X25+2X1,5	50,1	5350	404	9000
3X185+3X35+2X1,5	54,7	6640	461	11100
3X240+3X50+2X1,5	62,4	9270	540	14400



APPLICATION

SPECAFlex TS AT is a 1kV mining cable, suitable for a wide range of applications. Designed with class 5 flexible copper, symmetrical earth conductor, reinforced with aramid yarn for higher tensile strength, polyester braid for high torsion strength, and polyurethane outer jacket for good mechanical properties with high chemical resistance. The cable can be specially designed according to customer request.

PROPERTIES

Temperature range	-30°C to +90°C
Voltage rating U ₀ /U	0,6/1kV

STANDARDS

Conductor	IEC 60228-5
Construction	IEC 60502-1 IAP
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
Test voltage	3,5kV



CONSTRUCTION

Conductor	Flexible copper conductor class 5 (Tinned on request)
Insulation	XLPE (cross linked)
Core identification Power	Brown, Black, L-Grey + 3X Yellow/Green
Core identification signal 1,5mm ²	Red, Black (or customers choice)
TS	Reinforced Tensile Strength (aramid yarns)
Inner sheath	TPU
AT	Anti Torsion (Polyester braid between inner and outer sheath)
Outer sheath	TPU
Outer sheath colour	Yellow (or customer choice)
Marking	SPECAFlex TS AT [3xsize+3Gsize+2x1,5] 0,6/1kV YY/WW
Minimum bending radius fixed	6xOD
Minimum bending radius flex	8xOD
Oil/Chemical resistance	Good
Water resistance	Good
RoHS2 directive 2011/65/EU	Pass

Type code [More sizes on request]	Nom. outer diameter [mm]	Approximately Weight [kg/km]	Current rating, ambient temp 30°C in open air [A]	Max. tensile load [N]
3X25+3X6+2X1,5	24,2	1130	131	1500
3X35+3X6+2X1,5	28,0	1450	162	2100
3X50+3X10+2X1,5	30,2	1980	202	3000
3X70+3X16+2X1,5	36,2	2800	250	4200
3X95+3X16+2X1,5	39,2	3450	301	5700
3X120+3X25+2X1,5	45,1	4470	352	7200
3X150+3X25+2X1,5	50,1	5350	404	9000
3X185+3X35+2X1,5	54,7	6640	461	11100
3X240+3X50+2X1,5	62,4	9270	540	14400



APPLICATION

SPECAFlex TS AT HD is a 1kV mining cable, suitable for a wide range of applications. Designed with class 5 flexible copper, symmetrical earth conductor, reinforced with aramid yarn for higher tensile strength, polyester braid for high torsion strength, extra rigid polyurethane outer jacket for good mechanical properties, chemical resistance and constructed especially for heavy duty applications. The cable can be specially designed according to customer request.

PROPERTIES

Temperature range	-30°C to +90°C
Voltage rating U ₀ /U	0,6/1kV

STANDARDS

Conductor	IEC 60228-5
Construction	IEC 60502-1 IAP
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
Test voltage	3,5kV



CONSTRUCTION

Conductor	Flexible copper conductor class 5 (Tinned on request)
Insulation	XLPE (cross linked)
Core identification Power	Brown, Black, L-Grey +3X Yellow/Green
Core identification signal 1,5mm ²	Red, Black (or customers choice)
TS	Reinforced Tensile Strength (aramid yarns)
Inner sheath	TPU
AT	Anti Torsion (polyester braid between inner and outer sheath)
Outer sheath	TPU
HD	Extra strong and abrasion resistant TPU outer sheet for Heavy Duty applications
Outer sheath colour	Yellow (or customer choice)
Marking	SPECAFlex TS AT HD [3xsize+3Gsize+2x1,5] 0,6/1kV YY/WW
Minimum bending radius fixed	6xOD
Minimum bending radius flex	8xOD
Oil/Chemical resistance	Good
Water resistance	Good
RoHS2 directive 2011/65/EU	Pass

Type code	Nom. outer diameter	Approximately Weight	Current rating, ambient temp 30°C in open air	Max. tensile load
[More sizes on request]	[mm]	[kg/km]	[A]	[N]
3X25+3X6+2X1,5	24,2	1130	131	1500
3X35+3X6+2X1,5	28,0	1450	162	2100
3X50+3X10+2X1,5	30,2	1980	202	3000
3X70+3X16+2X1,5	36,2	2800	250	4200
3X95+3X16+2X1,5	39,2	3450	301	5700
3X120+3X25+2X1,5	45,1	4470	352	7200
3X150+3X25+2X1,5	50,1	5350	404	9000
3X185+3X35+2X1,5	54,7	6640	461	11100
3X240+3X50+2X1,5	62,4	9270	540	14400



Amokabel manufactures flexible, durable, flame retardant and customized cables for Swedish and international mining industry. Through high technical competence, a wide range of materials and responsiveness to the market we can offer high quality mining cables according to the application and our customers needs.



CONTACT

Dan Johansson - Manager Products & Segments
dan.johansson@amokabel.com
+46 481 750 867

Markus Johansson - Technician
markus.johansson@amokabel.com
+46 481 750 857



Amokabel AB • Kabelvägen 5 • SE-364 43 Alstermo • Sverige • Tel: +46 481 508 80
amokabel.com

