



CABLE RANGE FOR DATA CENTERS

Manufactured for performance
Engineered for future-ready data centers

amokabel
CABLE FOR LIFE

PRODUCT PORTFOLIO



AmoCharge Q-Flex

Innovative flexible power cables with a wide range of applications.

s 1-2



Alu Q-Flex

Innovative flexible aluminum power cables with a wide range of applications.

s 3-4



AmoSoft G2

Specifically developed for installations where extreme flexibility is an important requirement.

s 5-6



AluSoft

Specifically developed for installations where extreme flexibility and weight savings is an important requirement.

s 7-8



GREENLine

Suitable for power supply in data centers and internal wiring in electrical cabinets and switchboards.

s 9-10



GREENLine HF90

Suitable for power supply in data centers where higher temperatures is required.

s 11-12



TEXILine HF90

Single insulated 1kV cable for use in data centers where more power is required.

s 13-14

Solutions for a sustainable future

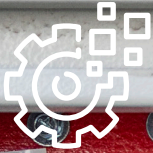
Amokabel does not only aim to deliver products – we strive to create solutions tailored to each customer. For us, close collaboration and a deep understanding of our customers' needs are essential.

We develop customer-specific and innovative cables that contribute to increased safety, efficiency, and sustainability. Our solutions are used in everything from energy and transportation to industry and digital infrastructure.

Amokabel is a global company headquartered in Alstermo, Småland. With operations in six locations around the world, we manufacture everything from installation cables to specialized cables for the defense industry.

Sustainability is a natural part of our daily operations. We are fully self-sufficient in renewable energy and have also invested in battery storage.





AmoCharge Q-Flex

Innovative flexible power cables with
a wide range of applications.

AmoCharge Q-Flex

APPLICATION:

Q-Flex is a flame retardant and halogen free flexible and double insulated single core cable. Designed for 0,6/1 kV AC and 1,5kV DC. Suitable for use in short-circuit-proof installations, battery storage, charging stations och powerplant centrals outdoors. Q-Flex is flexible, easy to work with and suitable for direct burial.



PROPERTIES:

Conductor temperature	+90°C
Temperature range	-30 to +90°C
Voltage Rating U _o /U (U _m)	0,6/1 (1,2)kV AC
Voltage Rating U _o /U (U _m)	0,9/1,5 (1,8)kV DC

STANDARDS:

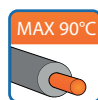
Conductor	IEC 60228,5
Construction	IEC 60502-1 IAP EN 50363,8
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
CPR-class	Dca

Construction

Conductor	Class 5 Bare flexible copper
Insulation	XHFFR acc. to IEC 60502,1
Outer sheath	HFFR HTWR acc. to EN 50363,8
Outer sheath colour	Black or customers choice
Marking	AMOCharge Q-Flex -size- 0,6/1kV AC 1,5kV DC YY/WW + meter marking
Bending radius, fixed installation	4 x Outer diameter

Type Code	Cross-section [mm²]	Nominal outer diameter [mm]	Current rating installation in open air, ambient 30°C [A]	Current rating, conduit in ground* [A]	Weight [kg/km]
AmoCharge Q-Flex	1X10	8,2	98	92	145
AmoCharge Q-Flex	1X16	9,2	132	118	200
AmoCharge Q-Flex	1X25	10,8	176	151	290
AmoCharge Q-Flex	1X35	12,1	218	181	390
AmoCharge Q-Flex	1X50	13,5	276	213	530
AmoCharge Q-Flex	1X70	16,4	347	264	760
AmoCharge Q-Flex	1X95	17,5	416	311	960
AmoCharge Q-Flex	1X120	20,1	488	352	1200
AmoCharge Q-Flex	1X150	23,0	566	398	1520
AmoCharge Q-Flex	1X185	24,7	644	446	1830
AmoCharge Q-Flex	1X240	28,0	775	514	2430
AmoCharge Q-Flex	1X300	29,9	898	580	2920
AmoCharge Q-Flex	1X400	34,1	1026	632	3940

*SS 436 40 00 Table 52B.3 Column D2 (Ground resistivity 1K-m/W)





Alu Q-Flex

Innovative flexible aluminum power cables with
a wide range of applications.

APPLICATION:

Flexible aluminium, double insulated, halogen free, single core conductor. Designed for 0,6/1 kV AC and 1,5 kV DC. Suitable for installation in battery storage and charging stations outdoors. Suitable for direct burial. Alu Q-Flex is flexible, lightweight, and easy to handle. When used with the Elpress crimping system Dual 5, it ensures a safe and reliable connection.



PROPERTIES:

Conductor temperature	+90°C
Temperature range	-25 to +90°C
Voltage Rating U_o/U (Um)	0,6/1 (1,2)kV AC
Voltage Rating U_o/U (Um)	0,9/1,5 (1,8)kV DC

STANDARDS:

Conductor	IEC 60228,5
Construction	HD 603 IAP IEC 60502-1 IAP
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, 2
CPR-class	Dca

Construction

Conductor	Flexible aluminium conductor
Insulation	XHFFR acc. to IEC 60502,1
Outer sheath	HFFR HTWR acc. to EN 50363,8
Outer sheath colour	Black or customers choice
Marking	ALU Q-Flex [size] 0,6/1 kV YY/WW meter marking
Bending radius, fixed installation	4 x Outer diameter

Type Code	Cross-section [mm²]	Nominal outer diameter [mm]	Current rating, conduit in ground* [A]	Current rating installation in open air, ambient 30°C [A]	Weight [kg/km]
ALU Q-Flex	1X50	14,4	151	210	270
ALU Q-Flex	1X70	17,7	186	271	380
ALU Q-Flex	1X95	19,2	219	332	470
ALU Q-Flex	1X120	20,5	249	387	570
ALU Q-Flex	1X150	23,7	281	448	720
ALU Q-Flex	1X185	26,0	315	515	880
ALU Q-Flex	1X240	28,5	362	611	1080
ALU Q-Flex	1X300	30,9	408	708	1290

*SS 436 40 00 Table 52B.3 Column D2 (Ground resistivity 1K-m/W)





AmoSoft G2

Specifically developed for installations where extreme flexibility is an important requirement.

APPLICATION:

AmoSoft G2 is an extra flexible double insulated single core cable. Specially designed for use in industrial applications where extreme flexibility is needed. Suitable for use in short-circuit-proof installations, such as distribution panels and switching devices. AmoSoft G2 and its rare flexibility is one of the easiest products to work with.

PROPERTIES:

Conductor temperature	+90°C
Temperature range	-40 till +90°C
Voltage Rating U _o /U (Um)	0,6/1 (1,2)kV AC
Voltage Rating U _o /U (Um)	0,9/1,5 (1,8)kV DC

STANDARDS:

Conductor	IEC 60228-5
Construction	EN 50363,7
	EN 50363,8
Flame retardant	EN 50575:2014+A1:2016
Halogen free	IEC 60754-1, -2

CPR-class	Dca
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Construction

Conductor	Class 5 Bare flexible copper
Insulation	Flame retardant TPE
Outer sheath	Flame retardant TPE
Marking	AmoSoft G2 -size- 0,6/1kV YY/WW CE (customer unique marking on request)
Outer sheath colour	Black (Other colours on request)
Bending radius, fixed installation	4 x Outer diameter

Type Code	Cross-section [mm ²]	Nominal outer diameter [mm]	Current rating installation in open air, ambient 30°C [A]	Weight [kg/km]
AmoSoft G2	1X10	8,8	98	145
AmoSoft G2	1X16	9,8	132	200
AmoSoft G2	1X25	11,4	176	300
AmoSoft G2	1X35	12,7	218	400
AmoSoft G2	1X50	14,8	276	540
AmoSoft G2	1X70	16,8	347	760
AmoSoft G2	1X95	18,7	416	1020
AmoSoft G2	1X120	20,9	488	1210
AmoSoft G2	1X150	23,9	566	1550
AmoSoft G2	1X185	26,2	644	1870
AmoSoft G2	1X240	29,7	775	2410
AmoSoft G2	1X300	32,7	898	2980
AmoSoft G2	1X400	36,5	1026	4040





AluSoft

Specifically developed for installations where extreme flexibility and weight savings is an important requirement.

APPLICATION:

AluSoft is a flexible aluminium double insulated single core cable. Specially designed for use in industrial applications where extreme flexibility is needed. Suitable for use in short-circuit-proof installations, such as distribution panels and switching devices. AluSoft and its flexibility combined with its low weight is one of the easiest products to work with.



PROPERTIES:

Conductor temperature	+90°C
Temperature range	-40 till +90°C
Voltage Rating U _o /U	0,6/1kV

STANDARDS:

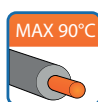
Conductor	IEC 60228-5
Construction	EN 50363,7 EN 50363,8
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1

CPR-class	Pending
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Construction

Conductor	Flexible aluminium conductor
Insulation	Flame retardant TPE
Outer sheath	Flame retardant TPE
Outer sheath colour	Black (Other colours on request)
Bending radius, fixed installation	4 x Outer diameter

Type Code	Cross-section [mm ²]	Nominal outer diameter [mm]	Current rating installation in open air, ambient 30°C [A]	Weight [kg/km]
AluSoft	1X50	15,2	210	258
AluSoft	1X70	18,1	271	345
AluSoft	1X95	20,3	332	448
AluSoft	1X120	21,3	387	539
AluSoft	1X150	24,7	448	689
AluSoft	1X185	27,4	515	848
AluSoft	1X240	30,0	611	1063
AluSoft	1X300	33,1	708	1298





GREENLine

Suitable for power supply in data centers
and internal wiring in electrical cabinets
and switchboards.

GREENLine H05Z1-K/H07Z1-K

APPLICATION:

GREENLine H05Z1-K/H07Z1-K is a 70°C HFFR insulated flexible conductor. Suitable for power supply in buildings and internal wiring in electrical cabinets, switchboards, motors and other electric equipment.

PROPERTIES:

Conductor temperature	+70°C
Temperature range	-30 to +70°C
Voltage Rating - H05 - U ₀ /U	300/500V
Voltage Rating - H07 - U ₀ /U	450/750V

STANDARDS:

Conductor	IEC 60228-5
Construction	EN 50525-3-31
Flame retardant	EN 50575:2014+A1:2016
Flame retardant	IEC 60332-1-2
Halogen free	IEC 60754-1, -2
Smoke density	IEC 61034-1, -2
CPR-class: 0,5mm ² -6mm ²	Dca- s2, d2, a1
CPR-class: 10mm ² -400mm ²	Dca- s1, d1, a1



Construction

Conductor	Bare or tinned flexible copper
Insulation	HFFR
Colour	According to EN 50525-1
Bending radius, fixed installation	4 x Outer diameter

Type Code	Cross- section [mm ²]	Nominal outer diameter [mm]	Current rating installation in open air, ambient 30°C [A]	Total Weight [kg/km]
H05Z1-K	0,5	2,1	12	9
H05Z1-K	0,75	2,3	15	11
H05Z1-K	1	2,5	19	14
H07Z1-K	1,5	2,9	24	20
H07Z1-K	2,5	3,6	32	31
H07Z1-K	4	4,1	42	46
H07Z1-K	6	4,7	54	64
H07Z1-K	10	6,0	73	113
H07Z1-K	16	7,0	98	169
H07Z1-K	25	8,6	129	259
H07Z1-K	35	9,9	158	347
H07Z1-K	50	11,5	198	503
H07Z1-K	70	14,0	245	701
H07Z1-K	95	15,5	292	922
H07Z1-K	120	17,7	344	1147
H07Z1-K	150	19,8	391	1458
H07Z1-K	185	21,7	448	1739
H07Z1-K	240	25,3	528	2384
H07Z1-K	300	27,3	608	2891
H07Z1-K	400	30,6	726	3598





INDUSTRY

GREENLine HF90

Suitable for power supply in data centers where higher temperatures is required.

GREENLine HF90 H05Z-K/H07Z-K

APPLICATION:

GREENLine H05Z-K/H07Z-K is a XHFFR insulated flexible conductor.
Suitable for power supply in buildings and internal wiring in electric cabinets, switchboards, motors and other electric equipment.

PROPERTIES:

Conductor temperature	+90°C
Temperature range	-40 to +90°C
Voltage Rating - H05 - U ₀ /U	300/500V
Voltage Rating - H07 - U ₀ /U	450/750V

STANDARDS:

Conductor	IEC 60228,5
Construction	EN 50525-3-41
Flame retardant	VDE 0298-4 table 11
Flame retardant	EN 50575+A1:2014
Halogen free	IEC 60754-1,-2
Smoke density	IEC 61034-1,-2

APPROVAL:

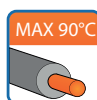
	Intertek Semko
CPR: 0,5mm ² -2,5mm ²	Eca
CPR: 4mm ² -240mm ²	Dca

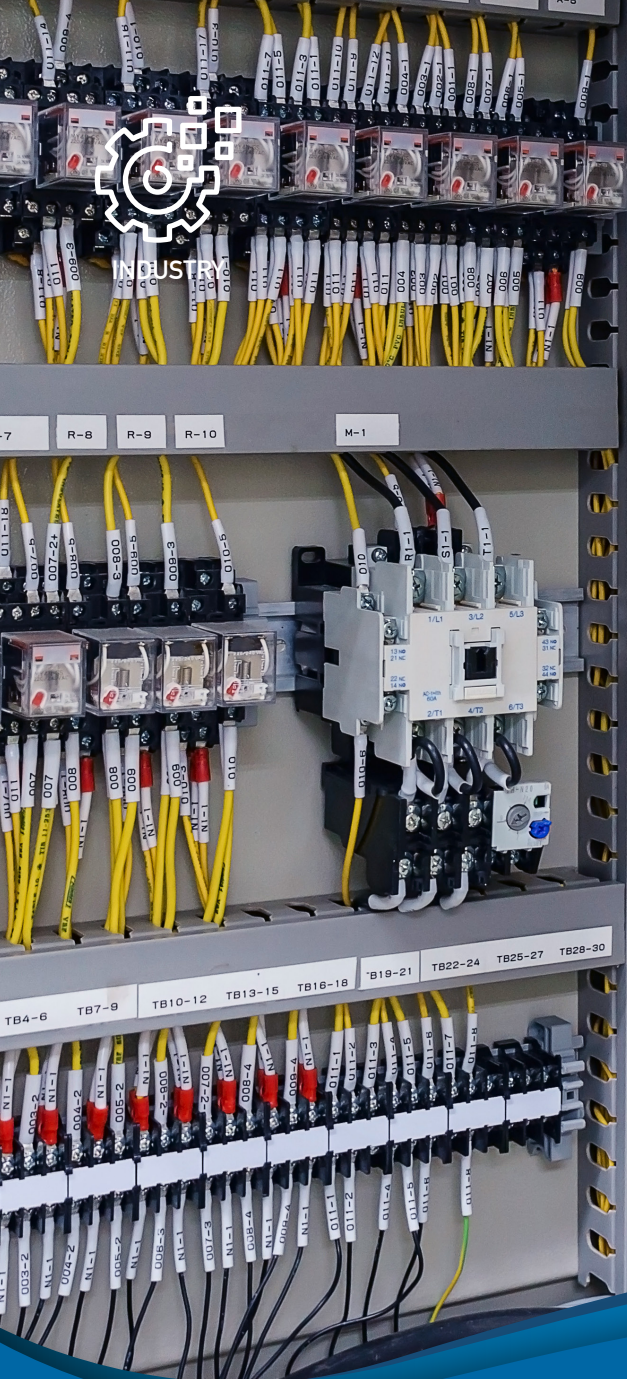


Construction

Conductor	Class 5 bare flexible copper
Insulation	XHFFR
MBR fixed installation	4xOD
Marking	GREENLine HF90 H05Z-K <size>mm ² 500V AMO CE or GREENLine HF 90 H07Z-K <size>mm ² 750V AMO CE
Colour	Customer choice - EN50525-1

Type Code	Cross- section [mm ²]	Insulation thickness [mm]	Outer diameter [mm]	Current rating installation in open air, ambient 30°C [A]	Total Weight [kg/km]
H05Z-K	0,5	0,6	2,1	12	8
H05Z-K	0,75	0,6	2,3	15	11
H05Z-K	1	0,6	2,5	19	13
H07Z-K	1,5	0,7	2,9	24	19
H07Z-K	2,5	0,8	3,6	32	30
H07Z-K	4	0,8	4,1	42	44
H07Z-K	6	0,8	4,7	54	62
H07Z-K	10	1,0	6,0	73	108
H07Z-K	16	1,0	7,0	98	160
H07Z-K	25	1,2	8,6	129	243
H07Z-K	35	1,2	9,9	158	336
H07Z-K	50	1,4	11,5	198	473
H07Z-K	70	1,4	14,0	245	673
H07Z-K	95	1,6	15,5	292	879
H07Z-K	120	1,6	17,7	344	1096
H07Z-K	150	1,8	19,8	391	1366
H07Z-K	185	2,0	21,7	448	1677
H07Z-K	240	2,2	25,3	528	2398
S07Z-K	300	2,4	28,2	608	2743
S07Z-K	400	2,6	30,6	726	3727





TEXILine HF90

Single insulated 1kV cable for use in data centers where more power is required.

TEXILine HF90 (cu)

APPLIKATION:

DNV approved single insulated 1kV cable for use in shipboard and offshore distribution panels and switchboards.
TEXILine HF90 has a smooth surface and flexible Cu class 5 conductor that provides excellent installation properties.
Available in 12 different standard colours. Others on request.

PROPERTIES:

Temperature rating DNV +90°C
Temperature rating UL +105°C
Voltage Rating U₀/U 0,6/1kV

STANDARDS:

Conductor IIEC 60228,5 / UL 1581
Construction IEC 60092-353 / UL 758
Halogen free IEC 60754-1, -2
Smoke density IEC 61034-1, -2
Flame retardant IEC 60332-1-2 / FT2

APPROVAL:

DNV TAE000026Z
CE acc 2014/35/EU
UL 30083



Construction

Conductor	Class 5 flexible bare conductor
Insulation	Halogen free, cross-linked and flame retardant special compound
Marking, Ink Print	Amokabel TEXILine HF90 <size> IEC 60092-353 1kV DNV - E164256 "UR logo" AWM 30083 105C "cUR logo" AWM I A 105C 1000V FT2 YYWW
Minimum bending radius, fixed installation	OD x 4
Colour	Customer specified

Conductor Cross-section	Conductor Cross-section	Number of wires approx.	Wire diameter	Nominal outer diameter	Current rating continuous load @45°C ambient DNVGL-RU-SHIP Pt.4 Ch.8 Sec.2 table 6	Max conductor resistance @20°C, bare Cu	Total weight
[mm ²]	[AWG]	[pcs]	[mm]	[mm]	[A]	[Ω/km]	[kg/km]
1	18	32	<0,21	2,7	18	19,5	15
1,5	16	27	<0,26	2,9	23	13,3	20
2,5	14	45	<0,26	3,4	30	7,98	30
4	12	50	<0,31	3,9	40	4,95	45
6	10	75	<0,31	4,5	52	3,30	65
10	8	75	<0,41	5,4	72	1,91	105
16	6	118	<0,41	6,4	96	1,21	170
25	4	189	<0,41	8,0	127	0,780	260
35	2	266	<0,41	9,3	157	0,554	345
50	1	378	<0,41	10,7	196	0,386	530
70	2/0	539	<0,41	13,4	242	0,272	740
95	3/0	469	<0,41	14,5	293	0,206	990
120	4/0	570	<0,51	16,9	339	0,161	1250
150	MCM300	703	<0,51	19,0	389	0,129	1560
185	MCM350	825	<0,51	20,9	444	0,106	1930
240	MCM450	1806	<0,51	24,3	522	0,0801	2510

Current rating correction factors for ambient temp other than 45°C per DNV-RU-SHIP Pt.4 Ch.8 Sec.2 table 10



Engineered for Extremes

Amo Specialkabel AB sets the standard for customized cable solutions. Since 1992, as the foundation of the Amokabel Group, we have pushed the boundaries of innovation—developing more than 10 000 unique cable designs tailored to the toughest industry demands.

We don't just manufacture cables—we engineer performance. From solid to flexible and extra flexible constructions, our solutions are built to excel where others fail. Extreme environments are our everyday reality, with cables designed to perform flawlessly in temperatures from -60°C to $+180^{\circ}\text{C}$.

Proudly manufactured in Sweden, our cables combine precision engineering with the highest quality standards. At the same time, our global presence ensures we are always close to our customers, with operations in the UK, Spain, and Australia.

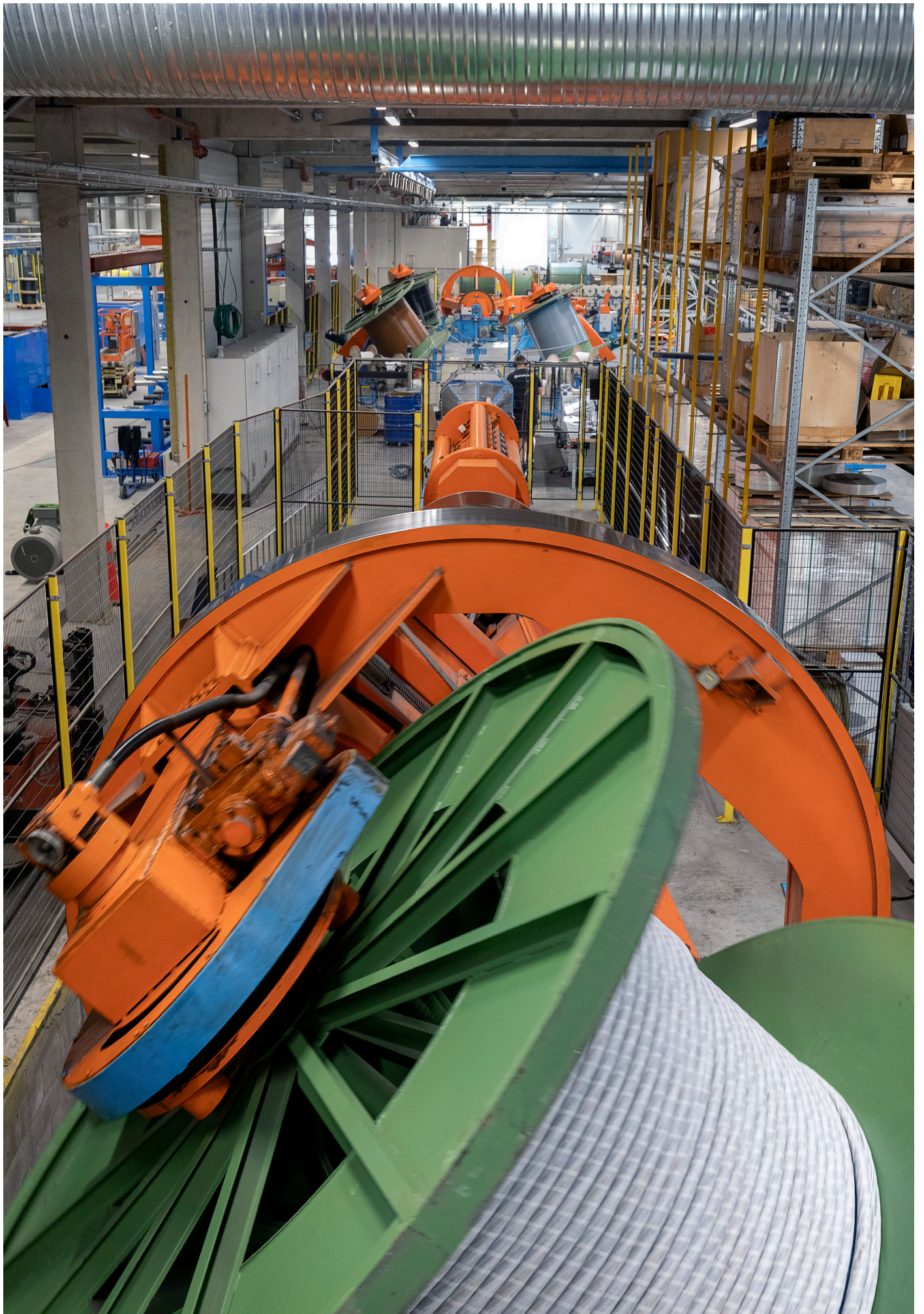
We serve demanding industries worldwide, including Industrial applications, Mining, Data Centers, and Marine—where reliability, safety, and performance are critical.

Our strength lies in material expertise. Whether it's bare copper, tinned copper, or flexible aluminum, combined with high-performance insulation such as halogen-free polyolefin, PVC, PP, XLPE, TPE, ETFE, PTFE, PE, PUR, EPR, or silicone—we select and optimize every component to deliver maximum reliability and longevity.

No compromises. No standard solutions. Every cable we produce is fully customized to your exact specifications—ensuring superior performance, efficiency, and durability in your application.

When performance matters, you choose Amo Specialkabel.





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