

ARC & ENERGY

YOU DON'T FOLLOW A HERD, YOU LEAD IT

With our extensive Arc & Energy range,
we offer the right clothing for many highly specialised work areas
and fields of application. It reliably protects against arc flash
and the risk of flammability, while impressing with a level of wearing comfort
that feels completely natural, and not just in the workplace.












Model: Romy, certification
Collection: HB-4Energy®

HB-SecureAllround®

The proven multifunctional blended fabric covers a wide range of standards and convinces with its pleasant wearing comfort.

The versatile products can also be designed according to your own ideas:

Simply choose your desired combination from 6 different colours.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1 ,2 ,3 ,4		3026	dark blue/ medium grey/red	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/ E2/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric industry and installation, public services, electricians



JACKET 4ka

Arc flash class 1

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

Three-coloured • stand-up collar • front with zip fastener with attached closure band and covered snap fasteners • 2 attached breast pockets with flap and covered snap fasteners • 1 inner pocket • side pockets with zip and with flap and covered snap fasteners • snap fasteners for adjusting sleeve width • leasing label • FR standard pictograms on the front.



TROUSERS 4ka

Arc flash class 1

Part number: **01128 20081 050 3026**

Garment weight: approx. 1,060 g

Three-coloured • waistband elasticated at the side • waistband fastening with covered patented buttons on both sides • front zip • 2 wingpockets • 1 back pocket with flap and covered snap fasteners • 1 thigh pocket with 1 interior mobile phone/pen pocket and flap with covered snap fasteners.



1 collection – more than 1,000 possibilities

The product images show one of many versions. Find detailed information in this catalogue (page 240) and at www.hb-ready-to-wear.com

These colours are available:



Also reflective stripes available – and certification acc. to EN 17353 high-visibility protection  included!



The equipment with different pockets and reflective stripes is freely selectable. With HB-SecureAllround® and our **READY TO WEAR** system, you can configure your PPE completely individually. And all delivered within 21* days.

Closure band
with snap
fasteners
covered on
both sides



COVERALL 4ka

Arc flash class 1

Part number: **01128 30014 050 3026**

Garment weight: approx. 1,590 g

Three-coloured • turndown collar • front with snap fastening covered on both sides • 2 patched breast pockets with flap and covered snap fasteners • 1 inside breast pocket with hook&loop fastening • 2 side pockets with flaps • sleeve width adjustable with snap fasteners • neck label • 1 back pocket • 1 thigh pocket with 1 interior mobile phone/pen pocket – each with flap and covered snap fasteners • FR standard pictograms on the arms.

4 |



Elasticated
section
for kidney
protection

2, 3 and 4 |
Thigh pocket
with 1 interior
mobile phone/
pen pocket

BIB AND BRACE TROUSERS 4ka

Arc flash class 1

Part number: **01128 50061 050 3026**

Garment weight: approx. 1,340 g

Three-coloured • stretch braces • front zip fastener • interior bib pocket with flap • 2 wing pockets • 2 side accesses with button fastening • 1 back pocket, 1 thigh pocket with 1 interior mobile phone/pen pocket – each with flap and covered snap fasteners • elasticated kidney protection.

*Outside Germany, delivery will take a few days longer. We accept no liability for delivery delays due to force majeure beyond the control of the seller.

MATERIAL: 75 % COTTON, 24 % POLYESTER, 1 % CARBON // FC-Equipment: fluorocarbon finish












FABRIC WEIGHT: approx. 350 g/m²

ATPV VALUE: 17.3 cal/cm² • 724.3 kJ/m² • **HAF VALUE:** 84.1 %

HABETEX®

HB-ArcSelect® Pro

Our new HB-ArcSelect® Pro collection is designed to meet the special requirements of electric arc protection and can be used in a wide range of activities. The high cotton content and soft feel of the material make it very comfortable to wear, comparable to leisurewear.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2041	navy/royal	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2081	anthracite/red							
		2382	anthracite/medium grey							
2 ,3		45	navy							
		58	anthracite							

FIELDS OF APPLICATION: Electricians and electric industries, public services, plant engineering, pipeline and line construction, steel works, gas and water networks, metal industry, switch gear construction



BLOUSON 4kA

Arc flash class 1

Part number: **01228 10000 017 + COLOUR NO.**

Garment weight: approx. 950 g

BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01228 10000 018 + COLOUR NO.**

Garment weight: approx. 1,100 g

Two-coloured • stand-up collar • covered front zip with covered snap fastener • 2 attached breast pockets with flaps and covered snap fasteners • side pockets with flaps and covered snap fastener • 1 inner pocket with hook & loop fastener • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front • reflective elements suitable for industrial laundry on front, back and sleeves • no high-visibility protective clothing acc. to EN ISO 20471.





Standard pictograms as flame-retardant direct embroidery



Industrially washable reflective stripes, certified to EN 17353 B2, provide improved visibility



2 |



TROUSERS 4ka

Arc flash class 1

Part number: **01228 20000 015 + COLOUR NO.**

Garment weight: approx. 760 g

TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01228 20000 016 + COLOUR NO.**

Garment weight: approx. 870 g

Single-coloured • waistband with button and zip-fly • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook & loop fastener • reflective elements • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.












MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 340 g/m² (2-ply: + approx. 280 g/m²)

4ka: ATPV VALUE: 13.0 cal/cm²

HB-ArcSelect® Pro

The extensive protective performance, the care with industrial laundry and the improved visibility which has been added to the standard profile meet the highest demands on PPE and represent modern multifunctional protective clothing. The contemporary look and high-quality manufacture round off the perfect profile of this multi-risk collection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2041	navy/royal	IEC 61482-2 1-ply: APC 1 2-ply: APC 2*	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2081	anthracite/red							
		2382	anthracite/medium grey							
2 , 3		45	navy	*Front part and sleeves/ front trousers						
		58	anthracite							

FIELDS OF APPLICATION: Electricians and electric industries, public services, plant engineering, pipeline and line construction, steel works, gas and water networks, metal industry, switch gear construction

2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4 kA



BIB AND BRACE TROUSERS 4kA

Arc flash class 1
Part number: **01228 50100 013 + COLOUR NO.**
Garment weight: approx. 960 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2
Part number: **01228 50100 014 + COLOUR NO.**
Garment weight: approx. 1,050 g

Single-coloured • stretch straps with fix-lock clip • front with zip-fly • bib with outer pocket with flap and covered snap fastener • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.



POSSIBLE COMBINATIONS – IN 2 PROTECTION CLASSES



High performance combined with soft material: HB-ArcSelect® Pro offers reliable protection and a comfortable fit throughout the working day. Improved visibility according to EN 17353 is also provided. The repair-friendly design of the collection supports the concept of sustainability.


















MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 340 g/m² (2-ply: + approx. 280 g/m²)

4kA: ATPV VALUE: 13.0 cal/cm²

HB-ArcSelect® Pro

Our HB-ArcSelect® Pro shirt and the completely double-layered coat made of the popular cotton-polyamide blend increase safety at workplaces exposed to arc hazards as an additional layer of clothing. This makes them the perfect addition to many heat, flame and arc flash protection collections. The jacket also covers large areas of the body and provides the best possible 7kA all-round protection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1		41	royal						37/38 – 47/48
		45	navy						
		52	medium grey						
		22	orange						
2		45	navy					Only Finisher	46/48 – 58/60

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks

Standard pictograms as direct embroidery



HB logo as direct embroidery

Ergonomic sleeves



Attached pocket with flap and covered snap fasteners



SHIRT 4kA

Arc flash class 1

Part number: **01227 60026 001 + COLOUR NO.**

Garment weight: approx. 560g

Single-coloured • Comfort Fit • regular turn down collar • front closure with snap fasteners covered on both sides • 1 attached pocket with flap and covered snap fasteners • ergonomic sleeves with protective sleeve vent and adjustable snap fasteners • FR leasing label • standard pictograms as flame retardant direct embroidery on the right cuff.



2 |

7kA all-round protection:
Material is completely 2-layer



Moving pleat on the back

MEN'S COAT 7kA

Arc flash class 2

Part number: **01004 40030 001 45**

Garment weight: approx. 1,650 g

Single-coloured • completely 2-layered • high band collar • front with covered 2-way zipper plus hook&loop fastener • 2 vertical side pockets with covered zipper • moving pleat for easy walking on the back • sleeve hem with adjustable hook&loop fastener • FR leasing label • standard pictograms on the left sleeve.









MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON .

1 | : ATPV VALUE: 12.3 cal/cm² • **HAF VALUE:** 82.3 % • **FABRIC WEIGHT:** approx. 280 g/m² .

2 | : ATPV VALUE: 40.0 cal/cm² • **HAF VALUE:** 91.0 % • **FABRIC WEIGHT:** approx. 340 g/m² + approx. 265 g/m²

HB-4arc®

Our high-end electric arc protection HB-4arc® is suitable for extreme load thanks to its particular high ATPV. It meets the requirements of IEC 61482-2 class 2 (7kA/4kA) and additionally offers heat, flame and welder's protection as well as antistatic properties. The material is partly doubled, very stable and tear-resistant. Wearing HB-4arc® provides you with much comfort and safety.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1		2205	navy/medium grey	IEC 61482-2 APC 2*	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	ISO 15797	46-58 & 94-110
2, 3		458	navy	* Front part and sleeves/ front trousers					
		52	medium grey						

FIELDS OF APPLICATION: Electrical installation, public services, energy suppliers, plant construction, electricians

1, 2 and 3 |
Ergonomic cut for more
freedom of movement



BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01237 10125 002 2205**

Garment weight: approx. 1,291g

Two-coloured • front parts and sleeves 2-ply • high-band collar with covered snap fastener • stitching in contrast colour offwhite • 2 side pockets with zip • 2 front pockets (as mobile phone pocket on the right) with flap and covered snap fastener • waistband and adjustable sleeve hems with covered snap fasteners • FR piping suitable for industrial laundry • leasing label • standard pictograms on the front as FR direct embroidery.

Electric Arc Flash protection 7kA/4kA



2 and 3 |
Ruler pocket with
additional pen pocket

2 |



Flame-retardant
stretch braces with
useful fixlock buckle

Side entries with
elastic knitted wedge

2 and 3 |
Cargo pocket with
additional mobile
phone pocket inside

2 and 3 |
Front trousers 2-ply

3 |



TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01237 20060 037 + COLOUR NO.**

Garment weight: approx. 1,152 g

Single-coloured • front trousers 2-ply • stitching in contrast colour off-white • added waistband with covered buttoning • zip fly • 2 slant pockets • 1 hip pocket on the right, 1 ruler pocket on the right leg (+ pen pocket) and 1 cargo pocket on the left leg (+ mobile phone pocket) – each with flap and covered snap fastener • shaped knees • knee pockets with adjustable covered hook&loop fastener.

BIB AND BRACE TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01237 50041 068 + COLOUR NO.**

Garment weight: approx. 1,361 g

Single-coloured • front trousers 2-ply • contrast stitching in off-White • fix lock stretch braces • bib with outer pocket and flap • zip-fly • two-side entries with elastic knitted wedge • 2 slant pockets • 1 hip pocket on the right, 1 ruler pocket on the right leg (+ pen pocket) and 1 cargo pocket on left leg – each with flap and covered snap fastener • shaped knees • knee pockets with adjustable covered hook&loop fastener.










MATERIAL: 89 % COTTON, 10 % POLYAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 390 g/m² + approx. 250 g/m²

ATPV VALUE: 20.0 cal/cm² • 836.8 kJ/m² • **ELIM:** 16.0 cal/cm²

HB-4arc®

HB-MODarc® is high-quality arc flash PPE that can be perfectly combined and adapted to different purposes. The soft and lightweight fabric offers a good fit with plenty of freedom of movement and, thanks to the cotton, a high level of wearer comfort. The 2-layer models are double-worked at crucial points.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2251	grey/black	IEC 61482-2						
		2251	grey/black	1-ply: APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797 Washing temperature 60°C	46-58 & 94-110
2, 3		2188	black/grey	2-ply: APC 2* *Front part and sleeves/ front trousers						

FIELDS OF APPLICATION: Public services, energy suppliers, plant construction, electrical installation

21 TO WEAR

Ladies models as well as more colours available in just 21 days. See page 236.

Formed elbows for more movement freedom



BLOUSON 4kA

Arc flash class 1
Part number 4kA: **01072 10107 034 2251**
Garment weight: approx. 835 g

BLOUSON 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01072 10107 035 2251**
Garment weight: approx. 910 g

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (one as an attached pocket) with flap, covered snap fastener and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • leasing label • standard pictograms on front as FR direct stitching.



TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 002 + COLOUR NO.**

Garment weight: approx. 730 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 20074 003 + COLOUR NO.**

Garment weight: approx. 845 g

Two-coloured • raw white contrast stitching • waistband with covered button closure • zip fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional, attached pocket - each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+pen pocket) • 2 knee pockets outside with hook&loop fastener.

2 |



2 and 3 |

Bellows pocket with additional attached pocket

2 and 3 |

Knee pockets with hook&loop fastener

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 002 + COLOUR NO.**

Garment weight: approx. 855 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 50055 003 + COLOUR NO.**

Garment weight: approx. 970 g

Two-coloured • raw white contrast stitching • stretch braces with fixlock buckle • bib with outer pocket with flap and covered snap fastener • straight kidney protection • 2 side accesses with stretch gusset • zip fly • 2 slant pockets • hip pocket on the right and bellows pocket on the left with additional, attached pocket, each with flap and covered snap fastener • ruler pocket on the right (+pen pocket) • knee pockets.

3 |



2 and 3 |

Front trousers available as 1-ply or 2-ply version.

**Electric Arc
Flash protection
4 kA or 7 kA/4 kA**

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)













4kA: ATPV VALUE: 10.4 cal/cm² • 468.9 kJ/m² • **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² • 837.3 kJ/m² • **HAF VALUE:** 88.9 %

HABETEX

HB-MODarc®

Our popular HB-MODarc® collection with reflective stripes is now certified acc. to EN 17353 for improved visibility. Again, the 2-layer models of this high-performance and modern arc-fault protective clothing are double-worked at the front, sleeves and front trousers and thus protect against electric arcs up to 7kA.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1		2251	grey/black	IEC 61482-2					EN 17353 Type B3		
		2041	navy/royal	1-ply: APC 1							
2 , 3		2251	grey/black	2-ply: APC 2*	EN ISO 11612 A1+A2/B1/C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 17353 Type B2	ISO 15797 Washing temperature 60°C	46-58 & 94-110
		2188	black/grey	* Front part and sleeves / front trousers							
		45	navy								
FIELDS OF APPLICATION: Public services, energy suppliers, plant construction, electrical installation											

21 TO WEAR

Ladies models as well as more colours available in just 21 days. See page 236.

Higher visibility:

Patched flame-retardant reflective stripes suited for industrial laundry, certified acc. to EN 17353

Front part and sleeve available as 1-ply or 2-ply version

Electric Arc Flash protection 4kA or 7kA/4kA

Completely manufactured in roof-tile design

Reflective stripes, suited for industrial laundry

Band collar with covered snap fastener



BLOUSON 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 10107 050 + COLOUR NO.**

Garment weight: approx. 895g

BLOUSON 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 10107 051 + COLOUR NO.**

Garment weight: approx. 970g

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (1 as an attached pocket) with flap, covered snap fastener and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • leasing label • standard pictograms on front as FR direct stitching • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.





2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

2 and 3 | Bellows pocket with additional attached pocket

2 and 3 | Reflective stripes, suited for industrial laundry



TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 20074 037 + COLOUR NO.**
01072 20074 039 45

Garment weight: approx. 765g

TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 20074 038 + COLOUR NO.**
01072 20074 040 45

Garment weight: approx. 880g

Two-coloured • raw white contrast stitching • waistband with covered button closure • zip fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional attached pocket – each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+pen pocket) • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.

BIB AND BRACE TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 50055 031 + COLOUR NO.**
01072 50055 033 45

Garment weight: approx. 890g

BIB AND BRACE TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 50055 032 + COLOUR NO.**
01072 50055 034 45

Garment weight: approx. 1,005g

Two-coloured • raw white contrast stitching • stretch braces with fixlock buckle • bib with outer pocket with flap and covered snap fastener • straight kidney protection • 2 side accesses with stretch gusset • zip fly • 2 slant pockets • hip pocket on the right and bellows pocket on the left with additional attached pocket – each with flap and covered snap fastener • ruler pocket on the right (+pen pocket) • knee pockets • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.

MATERIAL: 55 % MODARCRYLIC, 43 % COTTON, 2 % CARBON











FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)

4kA: ATPV VALUE: 10.4 cal/cm² • 468.9 kJ/m² • **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² • 837.3 kJ/m² • **HAF VALUE:** 88.9 %

HABETEX

Now also for women: As an additional layer of clothing, our shirts increase the protective function and thus extend the possible uses of PPE. The intelligent clothing solutions in our extensive HB-MODarc® collection thus cover many areas of work. Our new sweatshirt even offers arc fault class 2 and stands for a contemporary PPE look.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 2	 	45 521	navy cement grey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	-	S-2XL
2	 	228 50	orange light grey						
3 4		45	navy	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1			ISO 15797	2XS-L S-2XL

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks, network engineers



POLO SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80011 011 + COLOUR NO.**

Garment weight: approx. 300 g

Single-coloured • piqué polo-shirt • collar with board and covered snap fasteners • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.

1 and 2 |
Standards pictograms
as flame retardant
embroidery



2 |



T-SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80010 007 + COLOUR NO.**

Garment weight: approx. 295 g

Single-coloured • piqué T-shirt • round neck • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



3 |

LADIES POLO SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 000 45**

Garment weight: approx. 270 g

Single-coloured • piqué polo-shirt • collar with board and covered snap fasteners • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



4 |

LADIES T-SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 002 45**

Garment weight: approx. 265 g

Single-coloured • piqué T-shirt • round neck • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



5 |

SWEATSHIRT 7ka

Arc flash class 2

Part number: **01279 80023 005 45**

Garment weight: approx. 650 g

Single-coloured • round neck • sleeve with knitted cuffs • knitted waistband • standard pictograms as FR direct embroidery on the lower left sleeve • leasing label.

1 | to 4 | **MATERIAL:** 54% MODACRYLIC, 44 % COTTON, 2% CARBON

ATPV VALUE: 6.4 cal/cm² • **HAF VALUE:** 70.1 % • **FABRIC WEIGHT:** approx. 215 g/m²











5 | **MATERIAL:** 54% MODACRYLIC, 44 % COTTON, 2% CARBON

ATPV VALUE: 6.4 cal/cm² • 794.96 kJ/m² • **FABRIC WEIGHT:** approx. 405 g/m²

HABETEX

HB-PROtection®

Modern and comfortable arc fault protection: that is HB-PROtection®. The lightweight material mix convinces in arc flash performance. The extremely soft fabric ensures a good fit and plenty of freedom of movement. The processed cotton creates a pleasant wearing sensation. The 2-layer 7kA/4kA models are double-worked at the front and sleeves.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2177	navy/dark grey	IEC 61482-2 1-ply: APC 1						
2, 3		2175	dark grey/navy	2-ply: APC 2* * Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110
1		2177	navy/dark grey	IEC 61482-2 APC 2						
2		2175	dark grey/navy							

FIELDS OF APPLICATION: Metal industry, public services, electricians, pipeline and line construction, communication, gas and water networks

21 TO WEAR

Also ladies models
available – in just 21 days.
See page 236.



The 7kA version is completely doubled



Sleeve hem with
gusset and covered
hook&loop fastener

JACKET 4kA

Arc flash class 1
Part number 4kA: **01072 10112 020 2177**
Garment weight: approx. 835 g

JACKET 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01072 10112 018 2177**
Garment weight: approx. 910 g

JACKET 7kA

Arc flash class 2
Part number 7kA: **01072 10112 019 2177**
Garment weight: approx. 945 g

Two-coloured • stand-up collar with covered snap fastener • covered zip • 2 breast pockets with covered zip fastener, left pocket with tap to open • 1 inner breast pocket with additional pen pocket and hook&loop fastener • 2 side pockets with zip fastener • sleeve hem with reflective pipes • no high-visibility protective clothing acc. to EN ISO 2047 and EN 17353 • back with 2 movement pleats • elongated back as kidney protection • sleeve opening with gusset • sleeve hem with gusset and covered hook&loop fastener • added waistband • FR standard pictograms on the front.



Knee pockets with reflective pipes

TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 017 2175**

Garment weight: approx. 730 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number partially 7kA/4kA: **01072 20074 018 2175**

Garment weight: approx. 795 g

TROUSERS 7kA

Arc flash class 2

Part number 7kA: **01072 20074 035 2175**

Garment weight: approx. 860 g

Two-coloured • waistband with covered button closure • zip fly • ergonomic knees • 2 slant pockets • 2 hip pockets and 2 bellow pockets – each with flap and covered snap fasteners • knee pockets with reflective pipes • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

3 |



BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 015 2175**

Garment weight: approx. 855 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number partially 7kA/4kA: **01072 50055 016 2175**

Garment weight: approx. 970 g

Two-coloured • stretch braces with fixlock buckle • straight kidney protection • elastic waistband all around • 2 side access with gusset • slit with zip • ergonomic knees • 2 slant pockets • bib pocket with covered snap fastener • 2 hip pockets • 2 bellow pockets – each with flap and covered snap fastener • knee pockets with reflective pipes • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)




4kA: ATPV VALUE: 10.4 cal/cm² · 435 kJ/m² · **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 %

HB-PROtection

HB-PROtection® Green Turtle

Our HB-PROtection® Green Turtle shirt is made with organic cotton. It offers modern design as well as a comfortable, ergonomically improved "Comfort Fit". The fabric has a very low weight and provides most high wearing comfort – and inherent flame retardancy. Additionally it offers reliable protection against Arc Flash and antistatic properties. Therefore, it is suited for many working areas and the perfect complement for many HB product lines.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	 	45 52	navy medium grey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	ISO 15797	39/40–47/48
2		45	navy						36–48

FIELDS OF APPLICATION: Heat and flame exposed workplaces, energy suppliers, public services, plant engineering and construction, electricians

Band collar with covered snap fastener



1 | On request the shirt is also available in tight fitting "Body Fit".

Part number: **01251 60025 000 + COLOUR-NO.**

 45 navy  52 middle grey

SHIRT 4kA

Arc flash class 1

Part number: **01251 60026 000 + COLOUR-NO.**

Garment weight: approx. 440 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • front zipper with covered snap fastener on both sides • preformed sleeves • chest pocket with flap and sleeve cuff with gusset – each with covered snap fastener • FR Leasing label • standard pictograms as FR embroidery on right sleeve cuff.



Embroidered standard pictograms



What is the Organic Content Standard?



Organically grown cotton according to OCS 100 has been used in this shirt. Organic Content Standard 100 enables independent assessment, verification and traceability of the exact organic fiber content in the product. The OCS 100 certificate confirms that the organic content of the cotton used is at least 95%.



Dart at chest height



LADIES SHIRT 4ka

Arc flash class 1

Part number: **01251 60029 000 45**

Garment weight: approx. 390 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • front zipper with covered snap fastener on both sides • preformed sleeves • dart at chest height • chest pocket with flap and sleeve cuff with gusset – each with covered snap fastener • FR Leasing label • standard pictograms as FR embroidery on right sleeve cuff.









MATERIAL: 54% MODACRYLIC, 44% COTTON (organic), 2% CARBON

FABRIC WEIGHT: approx. 195 g/m²

ATPV VALUE: 6.9 cal/cm² • 288.7 kJ/m² • **EBT50 VALUE:** 7.1 cal/cm² • **ELIM:** 6.4 cal/cm²



HB-MODarc&vis® stands for modern multifunctional PPE and is suitable for work applications that require several standards in combination with warning and arc flash protection. The combination of blouson and trousers or bib and brace trousers achieves high visibility protection class 3. The two-layer models are doubled at the front, sleeves and front trousers and offer protection against electric arcs up to 7kA/class 2.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1 2 3		2112	fluorescent yellow/ navy	EN ISO 20471 Blouson: Class 2 Trousers, Bib and brace trousers: Class 1	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797 Washing temperature 60°C	46-58 & 94-110

FIELDS OF APPLICATION: Public services, public transport and construction, electricians, energy suppliers

21 TO WEAR

Also ladies models available – in just 21 days.
See page 236.



Front part and sleeve available as 1-ply or 2-ply version

Electric Arc Flash protection 4kA or 7kA/4kA

Reflective stripes, suitable for industrial laundry

Pockets with handy tab to open



BLOUSON 4kA

Arc flash class 1

Part number 4kA: **01072 10107 028 2112**

Garment weight: approx. 940g

BLOUSON 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 10107 033 2112**

Garment weight: approx. 1,055g

Two-coloured • parts subject to heavy soiling in blue • raw white contrast stitching • stand-up collar with covered snap fastener • covered 2-way zip • 2 front pockets with flaps, covered snap fasteners and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • standard pictograms on front as FR direct stitching • flame-retardant reflective stripes suitable for industrial laundry.



1, 2 and 3 | Achieves as suit
(blouson combined with trousers
or bib and brace trousers)
EN ISO 20471 Class 3

TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 000 2112**

Garment weight: approx. 815 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 20074 001 2112**

Garment weight: approx. 915 g

Two-coloured • parts subject to heavy soiling in blue • raw white contrast stitching • attached waistband with covered button closure • slit with zip-fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional attached pocket- each with flap, covered snap fastener and tab to open • 1 pocket for folding rule on the right (+ pen pocket) with flap • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry .

2 |



2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 000 2112**

Garment weight: approx. 910 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 50055 001 2112**

Garment weight: approx. 1,040 g

Two-coloured • parts subject to heavy soiling in blue • stretch braces with fixlock buckle • straight kidney protection • 2x side access with stretch gusset • slit with zip • 2 slant pockets • bib pocket, hip pocket on the right and bellows pocket on the left with additional attached pocket – each with flap and covered snap fastener • folding rule pocket on the right (+ pen pocket) with flap • knee pockets • flame-retardant reflective stripes suitable for industrial laundry.

3 |



2 and 3 | Cargo pocket + attached pocket

2 and 3 | Flame-retardant reflective stripes

MATERIAL: 55% MODACRYLIC, 43% COTTON, 2% CARBON .










FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²) .

4kA: ATPV VALUE: 10.4 cal/cm² · 435.4 kJ/m² · **HAF VALUE:** 80.2 % .

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 %

HABETEX®
HI-VISION®

Our most comprehensive product line HB-MODarc&vis®, which we present on the following pages, is a universal talent. The shirts offer multi-risk protection for underneath – and in summer also for outside! They are suitable for work areas that require multiple standards in combination with UV and high visibility. The FR vest with hi-vis protection is the ideal complement for many applications.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2397	fluorescent orange/ navy	EN ISO 20471 Class 2	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	EN 13758-2	-	S-2XL
2		2112	fluorescent yellow/navy			EN ISO 11612 A1+A2/B1/ C1/F1				XS-L
3		2112	fluorescent yellow/navy			EN ISO 11612 A1+A2/B1/ C1/F1 Partial body protection				1-4

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks



POLO-SHIRT 4kA LONG SLEEVE

Arc flash class 1

Part number: **01270 80012 003 2397**

Garment weight: approx. 350g

With reflective stripes circumferentially.

POLO-SHIRT 4kA LONG SLEEVE

Arc flash class 1

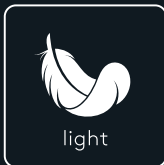
Part number: **01270 80012 006 2397**

Garment weight: approx. 350g

With reflective stripes like braces.

Two-coloured • long sleeves • collar with polo placket • closure band with flame-retardant snap fasteners • contrast stitching in raw white • flexible segmented and flame-retardant reflective stripes • standard pictograms as direct stitching on the bottom of the right sleeve • leasing label inside on the back.





POLO-SHIRT 4ka LONG SLEEVE

Arc flash class 1

Part number: **01244 80012 003 2112**

Garment weight: approx. 300 g

LADIES POLO-SHIRT 4ka LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 001 2112**

Garment weight: approx. 250 g

Two-coloured • long sleeves • collar with polo placket • closure band with flame-retardant snap fasteners • contrast stitching in raw white • flexible segmented and flame-retardant reflective stripes • standard pictograms as direct stitching on the bottom of the right sleeve • leasing label inside on the back.



VEST HIGH VIS FR

High-Visibility FR

Part number: **01072 10129 001 2112**

Garment weight: approx. 435 g

Two-coloured • round design, contrast stitchings in off-white • front closure via hook&loop fastener • HB logo as direct embroidery on back • flame-retardant reflective stripes attached in body language.



Reflective stripes,
suitable for industrial laundry

Hook&loop fastener

1 |, 2 | MATERIAL: 49 % POLYESTER, 30 % MODACRYLIC, 20 % COTTON, 1 % CARBON

FABRIC WEIGHT: approx. 245 g/m²

ATPV VALUE: 8.9 cal/cm² • **ELIM:** 6.8 cal/cm²

3 |, 4 | MATERIAL: 54 % MODACRYLIC, 44 % COTTON, 2 % CARBON • **FABRIC WEIGHT:** approx. 225 g/m²










ATPV VALUE: 6.4 cal/cm² • 267.78 kJ/m² • **HAF VALUE:** 70.1 %

5 | MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON • **FABRIC WEIGHT:** approx. 275 g/m²

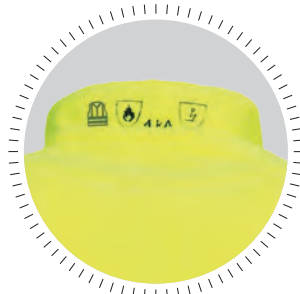
HABETEX®
HI-VISION®

HB-MODarc&vis®

Breathable, windproof and highly functional – these are the softshell and fleece jackets in our versatile HB-MODarc&vis® range. Whether multi-risk protection plus welding protection or flame protection plus protection for cooler days: the jacket can be used flexibly and is thus the ideal clothing for every season, suitable for many different work applications. NEW: our sweatshirt as modern alternative for inside and outside works.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1		2007	fluorescent yellow/dark blue	EN ISO 20471 Class 2	EN 14058 Class 1	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C2/F1		–	–	S–2XL
2		2112	fluorescent yellow/navy			IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1	EN 1149-5	EN 13758-2	ISO 15797	XS–4XL

FIELDS OF APPLICATION: For electricians, mains technicians and plant engineers, network engineers, in particular with public utility companies/energy suppliers



Standard pictograms as direct embroidery on the collar



Extended back with drawstring



Reflective stripes, suitable for industrial laundry

FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19080 001 2007**

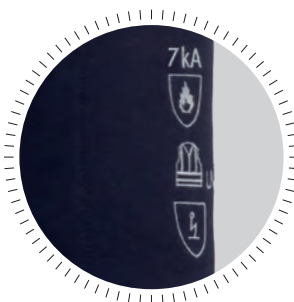
Garment weight: approx. 1,090g

Two-coloured • standard pictograms on the stand-up collar as flame-retardant direct embroidery • covered two-way zip below snap-fastener closure band • 2 side pockets with zip • sleeves with additional inner knitted wristband and wind-blocker • extended back with drawstring • flame-retardant reflective stripes in body-language for perfect all-around visibility.



Comfortable knitted cuffs

Standard pictograms as direct embroidery on the collar



SWEATSHIRT 7kA

Arc flash class 2

Part number: **01279 80023 004 2112**

Garment weight: approx. 670 g










3-coloured • round neck • sleeve cuff with knitted cuffs • knitted waistband • stretchable and segmented flame retardant reflective stripes • standard pictograms as FR direct embroidery on the lower left sleeve • leasing label.

- 1 | MATERIAL:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON · **FABRIC WT.:** approx. 360g/m² ·
- 2 | MATERIAL:** 54 % MODACRYLIC, 44 % COTTON, 2 % CARBON · **FABRIC WEIGHT:** approx. 405 g/m² ·
- 2 | ATPV VALUE:** 19.0 cal/cm² · 794.96 kJ/m²

HI-VISION®

HB-MODarc&vis®

The HB-MODarc&vis® parka with liner is suitable for a wide range of applications and thanks to the elaborate roof tile processing also for handling liquid metals. With the zip-in inner fleece it is unbeatable in cold weather. For optimum protection, the collar is reinforced with aramid fabric on the inside.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME									REGULAR SIZES
1		2047	black/navy	-	-	-	-	-	-	-	EN 14058 Class 1	S-2XL
2		2112	fluorescent yellow/navy	EN ISO 20471 Class 2	EN 343 Class 3/3	IEC 61482-2 APC 2	EN ISO 11612 A1+A2/B1/ C1/E1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type PB [6]	-	
3		45	navy	Certification only in combination with parka								
FIELDS OF APPLICATION: Energy suppliers, public services, plant responsible, liquid metal works, steel works, metal construction, electricians, public transport areas, petrochemistry, catenary construction												



Optimised fit



FLEECE JACKET FR

Outdoor

Part number: **07015 19095 000 2047**

Garment weight: approx. 700 g

Two-coloured • high band collar • closure band with zip fastener for closing or zipping into our HB-MODarc&vis® parkas • various buttons for fixation in parka • elastic wrist-band • material certified acc. to EN ISO 11612 A1/B1/C1/F1.



3 | Combinable with zippable Inner fleece FR (1 |) on left page.



FR standard pictograms embroidered on the collar

2 |



Patchable reflective stripes

Optimised Fit

PARKA 7ka

Arc flash class 2

Part number: **01072 19098 000 2112**

Garment weight: approx. 1,630 g

Two-coloured • flame-retardant upper material with liner • sealed seams • high band collar with covered buttons for hood attachment • hood suitable for wearing with or without helmet • covered 2-way zip fastener plus drip moulding with snap fasteners • 1 front pocket on the left, 1 mobile phone pocket (bellows) on the right, covered with laminated weather protection, and 2 side pockets (bellows) – each with flap and covered snap fastener • flame-retardant reflective stripes, suitable for industrial laundry • wristbands with strap and hook&loop fastener • FR standard pictograms on the collar.

HOOD

Arc flash class 2

Part number: **01072 79004 000 45**

Garment weight: approx. 140 g

Single-coloured • flame-retardant upper material with liner • sealed seams • to be attached via buttons, and suitable to be worn with or without helmet • attached visor • field of vision adjustable via cord • height adjustable via cord at back of head • certification only in combination with parka.

3 |



For buttoning to band collar



1 | **MATERIAL:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON

FABRIC WEIGHT: approx. 360 g/m²

2 | **MATERIAL:** 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON // With liner

FABRIC WEIGHT: approx. 275 g/m²

OUTER PLY: **ATPV VALUE:** 10.4 cal/cm² • 435.4 kJ/m² • **HAF VALUE:** 80.2 %

HABETEX®
INOTEC®

Safety even in problematic weather plus antistatic as well as additional protection against chemicals, heat, flames, welding spatter and electric arcs. This high-visibility and weather protection outfit with direct laminate is lightweight, windproof and 100 % water repellent. It can be perfectly combined with many other models of the HB-MODarc&vis® series.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME								REGULAR SIZES
1		2112	fluorescent yellow/navy	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	S-2XL
2				EN ISO 20471 Class 1		IEC 61482-2 APC 1					
3				Certification only in combination with parka							
											One size

FIELDS OF APPLICATION: Work in public places with additional hazards by arcs and flames, energy providers (also Off-shore industry), alternative energie providers, petrol chemistry, steelworks, electricians



Reflective stripes, suitable for industrial laundry



Elongated back

PARKA 7kA

Arc flash class 2

Part number: **05019 19071 013 2112**

Garment weight: approx. 1,665g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • design with round shapes • contrast stitching in off-white • high band collar with zip fastener for hood attachment • covered 2-way zip fastener plus drip moulding • elongated back • 1 inner Napoleon pocket on the left and 2 side pockets and 1 inner pocket on the left – each with zip fastener • waist adjustment via drawstring • wristbands adjustable via hook&loop fastener • flame-retardant reflective stripes • standard pictograms as direct embroidery on the front.

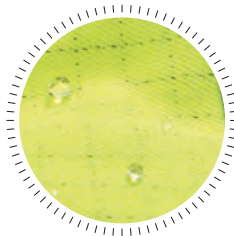


Wristband adjustable via hook&loop fastener



21ST TO WEAR

ARC &
ENERGY



1 to 3 |
100 % water-repellent

BIB TROUSERS 4ka

Arc flash class 1

Part number: **05019 29000 006 2112**

Garment weight: approx. 1,060 g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • parts subject to heavy soiling in navy blue • adjustable elastic braces • high kidney protection with elastic • elasticated side access • 2 slant pockets • 1 hip and 1 bellows leg pocket – each with flap, covered hook&loop fastening and tab to open • adjustable foot width thanks to additional material and zip.



Reflective stripes, suitable for industrial laundry

Foot width adjustable with PCV-Zip thanks to additional material



HOOD

Arc flash class 2

Part number: **05019 79006 001 2112**

Garment weight: approx. 200 g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • design with round shapes • separate hood, attachable via zip fastener and suited for wearing with/without helmet, with added peak • hood's field of vision adjustable via cord • hood height adjustable via hook&loop fastener at back of head.



MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON, POLYURETHAN-MEMBRANE

FABRIC WEIGHT: approx. 300 g/m²

OUTER PLY: ATPV VALUE: 22.2 cal/cm² · 929.3 kJ/m² · **HAF VALUE:** 87.8 %

HABETEX®
HI-VISION®

HB-4Energy®

Great look, pleasant material and highly functional: HB-4Energy® combines lightweight rip-stop fabric with stretchy and abrasion-resistant elements to protect in all the right places. Elastic parts provide exceptionally high wearing comfort with plenty of freedom of movement. This modern multi-risk collection meets the current zeitgeist as it covers many work areas and is a real eye-catcher because of the different material structures.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	EN ISO 20471 Class 1	ISO 15797 Washing temperature 60°C	REGULAR SIZES
1		4027	fluorescent yellow/ dark blue/navy						EN ISO 20471 Class 2		
2 , 3		4027	fluorescent yellow/ dark blue/navy	2-ply: APC 2*							
		4028	dark blue/fluores- cent yellow/navy	*Front part and sleeves/ front trousers 1					EN ISO 20471 Class 1		46-58 & 94-110

FIELDS OF APPLICATION: Plant construction, electric installation, public services, electricians, pipeline construction, switch gear construction, networks (communication, gas, water), renewable energies



Jacket combined with light trousers achieves as suit
EN ISO 20471 Class 3.



1 |

Elastic elements in the chest-arnpit area and in the shoulder blade

Resistant and dirt-repellent material on shoulders, upper arms, elbows and cuffs

1, 2 and 3 |

In the models with arc fault protection class 2, the material is doubled at the front sides and on the sleeves as well as on the front legs, and offers 7kA protection there



Elastic elements in the shoulder blade

JACKET 4kA

Arc flash class 1

Part number: **01288 10219 000 4027**

Garment weight: approx. 950g

JACKET 7kA/4kA

Arc flash class 2

Part number: **01288 10219 001 4027**

Garment weight: approx. 1,170g

2-coloured • stand-up collar • covered zip with covered snap fasteners • 2 breast pockets with covered snap fasteners and flap • 2 breast pockets with covered snap fasteners and flap • 1 inner breast pocket with snap fastener • 2 side pockets with zip • reflective elements on breast pockets • back extension as additional kidney protection • sleeves with knitted cuffs as wind guard inside and outside with adjustable hook & loop fastener • segmented reflective stripes • standard pictograms as FR direct embroidery on front left.



2 and 3 |

Elastic elements at the sides of the waistband, in the pocket opening, at the back of the trousers and in the crotch provide relief during kneeling activities

2 |



Side entry with elastic wedge

3 |



2 and 3 |

Resistant and dirt-repellent material on knee pockets and at the bottom of the inner leg

TROUSERS 4kA

Arc flash class 1

Part number: **01288 20156 002 4027**

Part number: **01288 20156 000 4028**

Garment weight: approx. 770 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01288 20156 003 4027**

Part number: **01288 20156 001 4028**

Garment weight: approx. 950 g

2-coloured • waistband raised at the back • reinforced belt loops • slit with zip • 2 wing pockets with trim and reflective elements • 2 back pockets with flap and press studs • 1 ergonomic ruler pocket on the right, 1 leg pocket on the left - both free-hanging and with flap, the leg pocket as bellows pocket with inside mobile phone pocket • knee pocket with Velcro fastening • segmented reflective stripes.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01288 50106 002 4027**

Part number: **01288 50106 000 4028**

Garment weight: approx. 920 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01288 50106 003 4027**

Part number: **01288 50106 001 4028**

Garment weight: approx. 1,050 g

2-coloured • stretch straps with fixlock buckles • bib with bib pocket and flap with snap fastener • high kidney protection • slit with zip • 2 wing pockets with trimming and reflective elements • 2 hip pockets with flap and snap fasteners • 1 ergonomic ruler pocket on the right, 1 leg pocket on the left - both free-hanging and with flap, the leg pocket as bellow pocket with inside mobile phone pocket • knee pocket with hook&loop fastener • segmented reflective stripes.

MATERIAL: 44 % MODACRYLIC, 30 % COTTON, 20 % POLYAMIDE, 5 % ARAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 260 g/m² (2-ply: + approx. 180 g/m²)

4kA: ATPV VALUE: 11.0 cal/cm² • 460.24 kJ/m² • **ELIM:** 10.0 cal/cm²















7kA/4kA: ATPV VALUE: 31.0 cal/cm² • 1297.04 kJ/m² • **ELIM:** 18.0 cal/cm²

HB-4Energy

HB-MultiPro FR®

Windproof, water-repellent and breathable:

MultiPro FR® is the perfect all-round protection for autumn and winter: Eight certified standards offer an exceptionally high level of protection suited for many different work areas and applications. Our all-rounder also impresses with its contemporary look and stands for modern and hard-wearing PPE.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES							
1		2425	fluoresc. yellow/ stone grey	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	S-2XL							
		2143	fluoresc. yellow/ dark blue																
		2408	fluoresc. orange/ stone grey																
		2147	fluoresc. orange/ dark blue																
2		17	fluoresc. yellow	Certification only in combination with parka								One size							
		18	fluoresc. orange																
FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers																			

FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers



Side pockets with zipper

PARKA 7kA

Arc flash class 2

Part number: **01121 19018 000 + COLOUR NO.**

Garment weight: approx. 1,780 g

2-coloured • flame retardant outer fabric with liner, welded seams • stand-up collar with concealed push buttons, chin guard and zipper for hood • covered 2-way zip plus drip moulding • 2 chest pockets with flap and covered snap fastener • 2 side pockets with zipper • 1 inside pocket on the left with Velcro closure • extended back • waist and hem width adjustable via cord • inside zipper to hook the fleece jacket • sleeves bottom width adjustable with hook & loop closure • flame retardant, segmented FR reflective stripes • standard pictograms as FR embroidery at the front.

Stand-up collar with concealed push buttons, chin guard and zipper for hood





Additionally available hood

Elongated back

Segmented reflective stripes,
flame retardant

HOOD

Arc flash class 2

Part number: **01121 79006 004 + COLOUR NO.**

Garment weight: approx. 195 g

Single-coloured • flame-retardant upper material with liner • sealed seams • separate hood, attachable via zipper • field of vision adjustable via cord • hood height adjustable via hook&loop fastener at the back of the head • certification only in combination with parka.



MATERIAL: 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE, 1 % CARBON // With liner















FABRIC WEIGHT: approx. 320 g/m²

ATPV VALUE: 8.8 cal/cm² · 368.19 kJ/m² · **ELIM:** 8.0 cal/cm²

HABETEX®

HB-MultiPro FR®

Just like the parka, the dungarees have many convenient features such as a chin guard, moisture barrier and numerous well-designed pockets. For even more effective protection against the cold, a matching fleece jacket can be added or, if required, worn on its own in the 4kA or 7kA version.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES
3		48	dark blue	-	-	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1/B1/ C2/F1	-	-	-	EN 14058 Class 1	S-2XL
		528	dark grey	-	-	2-ply: APC 2	EN ISO 11612 A1/B2/ C2/F1	-	-	-	-	
4		2425	fluoresc. yellow/ stone grey	EN ISO 20471 Class 1	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	
		2143	fluoresc. yellow/ dark blue									
		2408	fluoresc. orange/ stone grey									
		2147	fluoresc. orange/ dark blue									
FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers												



Stand-up collar with fastening loop for hooking into parka HB-MultiPro FR® – for additional cold protection



FLEECE JACKET 4kA

Arc flash class 1
07015 19019 000 + COLOUR NO.
Garment weight: approx. 970 g

FLEECE JACKET 7kA

Arc flash class 2
07015 19019 001 + COLOUR NO.
Garment weight: approx. 1,290 g

Single-coloured • stand-up collar with fastening loop for hooking into the outer jacket, to wear high necked or open • covered front zipper • 2 side pockets with covered zipper • hem adjustable with drawstring • sleeves bottom with knitted cuffs and 2 fastening loops each for hooking into the outer jacket • standards pictograms as direct embroidery on the front above the waistband.



3 | Effective protection against the cold: combine the fleece jacket with our HB-MODarc&vis® parka page 52 and HB-MultiPro FR® page 56.



4 |



Bib pocket with inside pen pocket with flap and covered snap fasteners



Comfortable knitted wedges at the waistband

Hook&loop fastening at the leg hem for easy entry

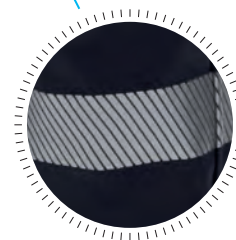
BIB AND BRACE TROUSERS 7ka

Arc flash class 2

Part number: **01121 59006 000 + COLOUR NO.**

Garment weight: approx. 1,430 g

Two-coloured • flame retardant outer fabric with liner, welded seams • adjustable length straps • diamond shaped kidney protection • 1 bib pocket with inside pen pocket with flap and covered snap fasteners • 2 wing pockets • inside back pockets with flap and concealed push buttons • 1 free-hanging folding rule pocket on the right and 1 bellows pocket on the left with inside cell phone pocket – each with flap and covered snap fasteners • entry on both sides with knitted wedge • slit with zipper • hook&loop fastener at the bottom of the trouser leg for easier entry • leg cuff with wetness barrier • flame retardant, segmented FR reflective stripes.



Segmented reflective stripes, flame retardant

1 | MATERIAL: 48% MODACRYLIC, 32% COTTON, 18% POLYESTER, 2% CARBON • **FABRIC WT.:** approx. 360g/m² •

2 |, 3 |, 4 | MATERIAL: 31% POLYESTER, 28% MODACRYLIC, 20% ARAMIDE, 20% VISCOSE, 1% CARBON // With liner •

FABRIC WEIGHT: approx. 320 g/m² •

ATPV VALUE: 8.8 cal/cm² • 368.19 kJ/m² • **ELIM:** 8.0 cal/cm²

HABETEX®

NOMEX® Viskose

NOMEX® Viskose combines pleasant wearing comfort with reliable protection. Despite its light weight, the fabric offers high durability and good moisture absorption. Suitable for those who frequently change their posture when working. Finished with generous pockets. The outside knee pockets are made of particularly abrasion-resistant aramid.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1 2 3		2030	royal/navy	IEC 61482-2 APC 1	EN ISO 11612 AT/B1/C1/F1	EN ISO 11611 Class 1 AT	EN 1149-5	46-58 & 94-110
FIELDS OF APPLICATION: Energy suppliers, public services, plant engineering and construction, electricians								



**21^{TO}**
WEAR**ARC &
ENERGY****TROUSERS 4ka**

Arc flash class 1

Part number: **01031 20022 013 2030**

Garment weight: approx. 700g

Two-coloured • waistband with covered button and lateral elastic bands • zip fly • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right – each with flap • 1 bellow pocket on left leg with flap and hook&loop fastener • knee pockets with hook&loop fastener • FR reflective stripes at legs, suitable for industrial laundry • reflective piping on flaps • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4ka

Arc flash class 1

Part number: **01031 50026 014 2030**





Garment weight: approx. 840g

Two-coloured • stretch braces with fixlock buckle • high-cut kidney protection • bib with outer pocket, ball-pen compartment and flap • zip fly • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right, 1 bellow pocket on left leg – each with flap and covered hook&loop fastener • side access on the left, adjustable via buttons • knee pockets with hook&loop fastener • FR reflective stripes at legs, and reflective piping on bib and flaps, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 50 % VISCOSE, 49 % ARAMIDE, 1 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m²**ATPV VALUE:** 9.9 cal/cm² • 414.4 kJ/m² • **HAF VALUE:** 79.0 %**DuPont™
NOMEX®**

NOMEX® Comfort

The NOMEX® Comfort fabric is fibre-inherently flame retardant and thus offers exceptionally high flame protection. With proper care, the protective function is maintained even after many washes. Due to the low material weight, NOMEX® Comfort offers protection and freedom of movement even in very uncomfortable workplaces with a particularly high risk potential.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1		41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46-58 & 94-110
2 ,3							

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation, public services, electricians



Front pocket with flap and covered snap fastener

Inner front pocket with flap and snap fasteners

BLOUSON 4kA

Arc flash class 1

Part number: **01042 10011 001 41**

Garment weight: approx. 545 g

Single-coloured • turn-down collar • closure band with covered snap fasteners on both sides • 1 front pocket on the left with flap and covered snap fastener • 1 inner front pocket on the right with flap and snap fasteners • sleeve hem width adjustable via snap fasteners, covered inwards • added waistband • standard pictograms as FR direct embroidery on front • FR leasing label.

**JACKET 4kA**

Arc flash class 1

Part number: **01042 10003 001 41**

Garment weight: approx. 580 g

Single-coloured • turn-down collar • closure band with snap fasteners covered on both sides • 1 front pocket on the left with flap and 2 piped pockets with covered pocket mouths, all with covered snap fasteners • 1 inner front pocket on the right with flap and snap fasteners • sleeve hem width adjustable via snap fasteners, covered inwards • standard pictograms as flame retardant embroidery • FR leasing label.

**COAT 4kA**

Arc flash class 1

Part number: **01042 40002 002 41**

Garment weight: approx. 720 g





Single-coloured • lapel collar • closure band with snap fasteners covered on both sides • 1 front pocket on the left and 2 side pockets, each with flap and covered snap fastener • 1 inner front pocket on the right • sleeve hem width adjustable via covered snap fasteners • FR leasing label.

MATERIAL: 98 % ARAMIDE, 2 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m² •
ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

DuPont™
NOMEX®

NOMEX® Comfort

The NOMEX® Comfort fabric is fibre-inherently flame retardant and thus offers exceptionally high flame protection. With proper care, the protective function is maintained even after many washes. Due to the low material weight, NOMEX® Comfort offers protection and freedom of movement even in very uncomfortable workplaces with a particularly high risk potential.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1 , 2		41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46-58 & 94-110
3							

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation, public services, electricians



TROUSERS 4kA

Arc flash class 1
Part number: **01042 20003 006 41**
Garment weight: approx. 510 g

Single-coloured • added waistband with 7 belt loops • 2 side seam pockets • 1 hip pocket on the right with flap and snap fasteners • button fly • 1 ruler pocket on the right.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1
Part number: **01042 50002 012 41**
Garment weight: approx. 655 g

Single-coloured • stretch braces with clamp-on clips • straightcut kidney protection • 1 outer bib pocket with covered snap fastener • side access on the left with buttoning • button fly • 2 side seam pockets with covered snap fastener • 1 hip pocket on the right with flap and covered snap fastener • 1 ruler pocket on the right.

**COVERALL 4KA**

Arc flash class 1

Part number: **01042 30017 001 41**

Garment weight: approx. 990 g

Single-coloured • turn-down collar, closure band with snap fasteners covered on both sides • 1 front pocket on the left, 1 side pocket on the left and 1 pocket pass-through on the left – each with covered snap fastener • 1 ruler pocket on the right • elastic waistband all round • sleeve hem width adjustable via snap fastener, covered inwards.







MATERIAL: 98 % ARAMIDE, 2 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m² •

ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

DuPont™
NOMEX®

INOTEC® Arc & Energy

Extraordinary protection and comfort, combined with low weight: INOTEC® Arc & Energy offers fibre-inherent flame protection, excellent arc flash protection, antistatic properties plus retro-reflective stripes. The lightweight material and the clever cut provide wearers with an easy freedom of movement. Available as 1-ply or 2-ply version.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 ,2 ,3		2027	royal/navy	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation, public services, electricians

Design and cut relaunched:
Now even more comfortable
thanks to optimised fit.



Sleeve cuffs adjustable
with snap fasteners



JACKET 4kA

Arc flash class 1
Part number 4kA: **01043 10000 009 2027**
Garment weight: approx. 780g

JACKET 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01043 10000 010 2027**
Garment weight: approx. 940g

Two-coloured • stand-up collar • fastening strip with covered zip • 2 breast and 2 side pockets with flap and snap fasteners • mobile phone pocket with zip on the front • FR reflective piping on front, back and sleeves, suited for industrial laundry • back with FR reflective stripes, suited for industrial laundry - sleeve cuffs adjustable with snap fasteners • standard pictograms on the front as FR direct embroidery • no high-visibility clothing according to EN ISO 20471 and EN 17353.

Mobile phone
pocket on the
front

Front part and sleeve available as 1-ply or 2-ply version **Electric Arc Flash protection 4kA or 7kA/4kA**



Matching bib and brace trousers:

Zip-in membrane as liner trousers for additional moisture protection made of 190 g/m² light-weight material double-layer laminate FR
Part number: **05065 29004 000 519**

2 |



2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

2 and 3 | Flame-retardant reflective stripes, suitable for industrial laundry

3 |



TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01043 20000 004 2027**

Garment weight: approx. 650g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01043 20000 005 2027**

Garment weight: approx. 765g

Two-coloured • attached waistband • 2 slant pockets • fly with covered zip • 2 back pockets with flap and snap fasteners • 1 folding rule pocket on the right • 1 leg pocket on the left with bellows pleat at the back, flap and snap fastener • reflective piping on saddle seam of back trousers • 2 reflective stripes at the bottom of the legs • no high-visibility clothing according to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01043 50100 004 2027**

Garment weight: approx. 800g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01043 50103 000 2027**

Garment weight: approx. 920g

Two-coloured • stretch straps with fixlock buckles • high-cut kidney protection • outside bib pocket with flap, reflective piping and covered snap fasteners • 1 side entry on the left, adjustable with buttons • fly with zip • 2 wing pockets • 2 seat pockets and 1 bellows leg pocket on the left, each with flap and snap fasteners • 1 reinforced folding rule pocket on the right with flap and snap fasteners • no high-visibility clothing according to EN ISO 20471 and EN 17353.

MATERIAL: 98 % ARAMIDE, 2 % CARBON // FC-Equipment: fluorocarbon finish

FABRIC WEIGHT: approx. 260g/m² • **7kA/4kA: FABRIC WEIGHT:** approx. 260g/m² + approx. 180g/m²

4kA: ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

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DuPont™
NOMEX®