

HELUKABEL®

RATED VOLTAGE		62930 IEC131/ H1Z2Z2-K 6mm²	REVISION:	A/0	FORM NO.	B274
DC1500V			CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	6mm²				
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	78/0.3				
	Stranded OD.(mm)	3.00				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	4.45±0.10				
	Color	Black				
Outer Layer	Material	XLPO				
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	6.10±0.15				
	Color	Black				
			INNER AND OUTER LAYER IS INSEPARABLE.			

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%	≥125%
Strength		≥8MPa	≥8MPa
Cold bend test	(-40 ± 2.0℃ × 16h)	No cracking	
Flame test	IEC60332-1	PASS	
Rated temperature	-40℃ up to +90℃		
Thermal endurance properties	Elongation≥50% Temperature index≥120		

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20℃	≤3.39Ω/km
Dielectric Strength	6.5KV/5min
Spark test	10000VAC
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS
Insulation resistance at 20℃	≥610MΩ/km
Max. current at 60℃	72A

PRODUCT STANDARD CERTIFICATION	Reference Standard:
R50501706&R50501708	IEC62930&EN50618

```
xxxxx>m>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H1Z2Z2-  
K>>>1x6>mm²/>715351>>>1500VDC>>>EN50618>>>TUV>R>50501708>>>629  
30>IEC>131>1x6>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TUV>R>5050  
1706>>>zZC84500012345>>>>>>>>CE>>>>>>AG
```

(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

Interval: 2 x per meter
> = Space characters
zz Coding of HELUKABEL® subsidiary (Depending on the HK subsidiary which places the order). (variable)
4500012345 Order number of HK-Germany (Example). Order no. might be different for HELUKABEL® subsidiaries. (variable)

HELUKABEL®

RATED VOLTAGE		62930 IEC131/ H1Z2Z2-K 6mm ²	REVISION:	A/0	FORM NO.	B274
DC1500V			CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	6mm ²				
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	78/0.3				
	Stranded OD.(mm)	3.00				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	4.45±0.10				
	Color	Black				
Outer Layer	Material	XLPO				
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	6.10±0.15				
	Color	Red(RAL3014)				
			INNER AND OUTER LAYER IS INSEPARABLE.			

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%	≥125%
Strength		≥8MPa	≥8MPa
Cold bend test	(-40 ± 2.0℃ × 16h)	No cracking	
Flame test	IEC60332-1	PASS	
Rated temperature	-40℃ up to +90℃		
Thermal endurance properties	Elongation≥50% Temperature index≥120		

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20°C	≤3.39Ω/km
Dielectric Strength	6.5KV/5min
Spark test	10000VAC
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS
Insulation resistance at 20°C	≥610MΩ/km
Max. current at 60°C	72A

PRODUCT STANDARD CERTIFICATION	Reference Standard :
R50501706&R50501708	IEC62930&EN50618

```
xxxxx>m>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX -X-H1Z2Z2-  
K>>>1x6<mm2>>713569>>>1500VDC>>>EN50618>>>TUV>R>50501708>>629  
30>IEC>131>1x6<mm2>>>HALOGEN>FREE>>>LOW>SMOKE>>>TUV>R>505  
01706>>>zzC84500012345>>>CE>>>AG
```

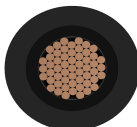
(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

Interval: 2 x per meter
 > = Space characters
 zz Coding of HELUKABEL® subsidiary (Depending on the HK subsidiary which places the order). (variable)
 4500012345 Order number of HK-Germany (Example). Order no. might be different for HELUKABEL® subsidiaries. (variable)

Function for Accessing the Calculated Variable	Function for Accessing the Calculated Variable	Function for Accessing the Calculated Variable	Function for Accessing the Calculated Variable	Function for Accessing the Calculated Variable	Function for Accessing the Calculated Variable

1.CONSTRUCTION

RATED VOLTAGE	62930 IEC131/ H1Z2Z2-K 4mm²		REVISION:	A/0	FORM NO.	B274
	DC1500V		CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	4mm²	  			
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	52/0.3				
	Stranded OD.(mm)	2.45				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	3.85±0.10				
	Color	Black				
Outer Layer	Material	XLPO				
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	5.50±0.15				
	Color	Black				
			INNER AND OUTER LAYER IS INSEPARABLE.			

2.MECHANICAL CHARACTERISTICS

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%	≥125%
Strength		≥8MPa	≥8MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking	
Flame test	IEC60332-1	PASS	
Rated temperature	-40°C up to +90°C		
Thermal endurance properties	Elongation≥50% Temperature index≥120		

3.ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20℃	≤5.09Ω/km
Dielectric Strength	6.5KV/5min
Spark test	10000VAC
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS
Insulation resistance at 20℃	≥709MΩ/km
Max. current at 60℃	55A

4. STANDARD

PRODUCT STANDARD CERTIFICATION	Reference Standard:
R50501706&R50501708	IEC62930&EN50618

5.MARKING :

```
xxxxx>m>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H12Z2Z-  
K>>>1x4>mm²/>/713530>>>1500VDC>>>EN50618>>>TUV>R>50501708>>629  
30>IEC>131>1x4>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TUV>R>5050  
1706>>>z>C84500012345>>>>>>CE>>>>>AG
```

6.Note

Interval: 2 x per meter
 > = Space characters
 zz Coding of HELUKABEL® subsidiary (Depending on the HK subsidiary which places the order). (variable)
 4500012345 Order number of HK-Germany (Example). Order no. might be different for HELUKABEL® subsidiaries. (variable)

6. PACKING

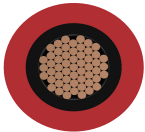
(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways



HELUKABEL®

1.CONSTRUCTION

RATED VOLTAGE	62930 IEC131/ H1Z2Z2-K 4mm²		REVISION:	A/0	FORM NO.	B274
	DC1500V		CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	4mm²				
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	52/0.3				
	Stranded OD.(mm)	2.45				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	3.85±0.10				
	Color	Black				
Outer Layer	Material	XLPO	INNER AND OUTER LAYER IS INSEPARABLE			
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	5.50±0.15				
	Color	Red(RAL3014)				

2.MECHANICAL CHARACTERISTICS

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%	≥125%
Strength		≥8MPa	≥8MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking	
Flame test	IEC60332-1	PASS	
Rated temperature	-40°C up to +90°C		
Thermal endurance properties	Elongation≥50% Temperature index≥120		

3.ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION
Max. Conductor DC Resistance at 20℃	≤5.09Ω/km
Dielectric Strength	6.5KV/5min
Spark test	10000VAC
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS
Insulation resistance at 20℃	≥709MΩ/km
Max. current at 60℃	55A

4. STANDARD

PRODUCT STANDARD CERTIFICATION	Reference Standard:
R50501706&R50501708	IEC62930&EN50618

5.MARKING :

```
xxxxx>m>>>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEXX-H1Z2Z2-  
K>>>1x4>mm²>/>713545>>>1500VDC>>>EN50618>>>TUV>R>50501708>629  
30>IEC>131>1x4>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TUV>R>5050  
1706>>>zZC84500012345>>>>>>CE>>>>AG
```

6. Note

Interval: 2 x per meter
 > = Space characters
 zz Coding of HELUKABEL® subsidiary (Depending on the HK subsidiary which places the order). (variable)
 4500012345 Order number of HK-Germany (Example). Order no. might be different for HELUKABEL® subsidiaries. (variable)

6.PACKING

(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

different for HELLKABEL subsidiaries: (variable)						

HELUKABEL®

RATED VOLTAGE		62930 IEC131/ H1Z2Z2-K 10mm²	REVISION:	A/0	FORM NO.	B274
DC1500V			CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	10mm²				
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	77/0.40				
	Stranded OD.(mm)	4.1				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	5.50±0.15				
	Color	Black				
Outer Layer	Material	XLPO	INNER AND OUTER LAYER IS INSEPARABLE.			
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	7.20±0.30				
	Color	Black				

ITEM	SPECIFICATION	
	INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%
Strength		≥8MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking
Flame test	IEC60332-1-2	PASS
Smoke density acc. to	IEC 61034	PASS
Ozone resistant acc. to	EN 50618	PASS
Rated temperature	-40°C up to +90°C	
Halogen-free acc. to	DIN VDE 0285-525-1 /DIN EN 50525-1 appendix B /DIN EN 60754-1 / IEC 60754-1	PASS
Sheath resistance against acid and alkaline acc.to	EN 60811-404	PASS
Thermal endurance properties	Elongation≥50% Temperature index≥120	
All tests of EN 50618	PASS	

ITEM	SPECIFICATION				
Max.Conductor DC Resistance at temperature (Ω/km)	20℃	40℃	50℃	70℃	90℃
	1.95	2.1	2.18	2.33	2.49
Dielectric Strength	AC6.5KV/5min				
Spark test	10000VAC				
Weathering/UV-resistance acc. to EN 50618 appendix E	PASS				
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS				
Insulation resistance at 20℃	≥498MΩ/km				
Max. current at 60℃	98A				

PRODUCT STANDARD CERTIFICATION	Reference Standard:
R50501706&R50501708	IEC62930&EN50618

```
xxxxx>m>>>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H1Z2Z2-  
K>>>x10>mm²/>/>T13532>>>150VDC>>>EN50618>>>TÜV>R>50501708>>>62930>IEC>131>1  
x10>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TÜV>R>50501706>>>25C8POXXXXXX>  
>>>CE>>>>DG
```

(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

Interval: 2 x per meter
xxxxx: Meter marking 5 digits (variable)
> = Space characters
713532: HELUKABEL® part number (variable)
XXXXXX: PO NO.
D Manufacturing month (D=April/month code) (variable) **F** Manufacturing year (F=2021/year code) (variable)

HELUKABEL®

RATED VOLTAGE		62930 IEC131/ H1Z2Z2-K 10mm²	REVISION:	A/0	FORM NO.	B274
DC1500V			CONSTRUCTION D.W.G			
Conductor	Cross-sectional Area	10mm²				
	Material	Stranded Tinned Copper				
	Conductor.Size (mm)	77/0.40				
	Stranded OD.(mm)	4.1				
Inner Layer	Material	XLPO				
	AVG Thickness (mm)	0.70				
	Min Thickness (mm)	0.53				
	OD.(mm)	5.50±0.15				
	Color	Black				
Outer Layer	Material	XLPO				
	AVG Thickness (mm)	0.80				
	Min Thickness (mm)	0.58				
	OD. (mm)	7.20±0.30				
	Color	Red(RAL3014)				
			INNER AND OUTER LAYER IS INSEPARABLE.			

ITEM	SPECIFICATION	
	INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%
Strength		≥8MPa
Cold bend test	(-40 ± 2.0°C × 16h)	No cracking
Flame test	IEC60332-1-2	PASS
Smoke density acc. to	IEC 61034	PASS
Ozone resistant acc. to	EN 50618	PASS
Rated temperature	-40°C up to +90°C	
Halogen-free acc. to	DIN VDE 0285-525-1 /DIN EN 50525-1 appendix B /DIN EN 60754-1 / IEC 60754-1	PASS
Sheath resistance against acid and alkaline acc.to	EN 60811-404	PASS
Thermal endurance properties	Elongation≥50% Temperature index≥120	
All tests of EN 50618	PASS	

ITEM	SPECIFICATION				
Max.Conductor DC Resistance at temperature (Ω/km)	20°C	40°C	50°C	70°C	90°C
	1.95	2.1	2.18	2.33	2.49
Dielectric Strength	AC6.5KV/5min				
Spark test	10000VAC				
Weathering/UV-resistance acc. to EN 50618 appendix E	PASS				
water resistant acc.to DIN VDE0285-525221/DIN EN50525-2-21 AnnexE	PASS				
Insulation resistance at 20°C	≥498MΩ/km				
Max. current at 60°C	98A				

PRODUCT STANDARD CERTIFICATION	Reference Standard:
R50501706&R50501708	IEC62930&EN50618

```
xxxxx>m>>>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H1Z2Z2-  
K>>>1x10>mm</>>>R13571>>>150VDC>>>EN50618>>>TÜV>R>50501708>>>62930>IEC>131>1  
x10>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TÜV>R>50501706>>>25C8POXXXXXX>>>  
>>>CE>>>>>>DF
```

(a) 500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

Interval: 2 x per meter
xxxxx: Meter marking 5 digits (variable)
> = Space characters
713571: HELUKABEL® part number (variable)
XXXXXX: PO NO.
D Manufacturing month (D=April/month code) (variable) **F** Manufacturing year (F=2021/year code) (variable)