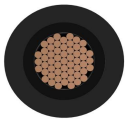
SPECIFICATION FOR APPROVAL

1.CONSTRUCTION

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	Black	INNER AND OUTER LAYER IS INSEPARABLE.			



2.MECHANICAL CHARACTERISTICS

ITEM		SPECIFICATION	
		INNER LAYER	OUTER LAYER
Elongation	Un-aged	≥125%	≥125%
Strength	Un-aged	≥8MPa	≥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℃ up to +90℃		
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		

3.ELECTRICAL CHARACTERISTICS

ITEM	SPECIFICATION				
Max.Conductor DC Resistance at temperature (Ω/km)	20°C	40°C	50°C	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				

4.STANDARD

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

5.MARKING :

xxxxx>m>>>>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H1Z2Z2-K>>>1x10>mm²>/>713532>>>1500VDC>>>EN50618>>>TÜV>R>50501708>>62930>IEC>131>1x10>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TÜV>R>50501706>>>25C8POXXXXXXX>>>>CE>>>>>DG

6.PACKING

(a)500m、1000m、2000m、3000m

(b) Consulting if delivering in other ways

6.Note

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

SPECIFICATION FOR APPROVAL

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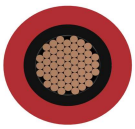
	Color	Red(RAL3014)	INNER AND OUTER LAYER IS INSEPARABLE.			



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xxxxx>m>>>>>>>>>>>>>>>>HELUKABEL>>>SOLARFLEX-X-H1Z2Z2-K>>>1x10>mm²>/>713571>>>1500VDC>>>EN50618>>>TÜV>R>50501708>>62930>IEC>131>1x10>mm²>>>HALOGEN>FREE>>>LOW>SMOKE>>>TÜV>R>50501706>>>25C8POXXXXXXX>>>>>CE>>>>>DF

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