



Construction

Conductor: Aluminium (Compact Circular Stranded)

Conductor shield: Extruded Semi-conductive Compound.

Insulation: Extruded Cross-linked Polyethylene (XLPE).

Insulation Shield: Extruded semi-conducting compound.

Metal Shield: Copper tape screen.

Sheath: Extruded PVC 90°C grade.

Messenger wire: Stranded Steel Wire, PVC 90°C Covered.

Applications

It is mainly used in overhead lines for medium voltage power transmission, especially in areas where higher voltage carrying capacity is required and where the terrain is complicated or underground laying is not suitable.

Standards

DIN VDE 0276-620

HD 620

EN 60228

IEC 60502-2

Specification

Temperature range	-20 -90
Test voltage	30kv
Max. temperature during short circuit($\leq 5S$)	250

Technical Data

Nominal cross sectional area		Phase						Steel Messenger Overall diameter	Overall diameter	Cable Net. Weight	Standard length per reel	Minimum bending radius	Current carrying at 20°C	Capacity in air at 40°C	
PHASE (mm ²)	MESSENGER (mm ²)	Approx. Conductor diameter (mm)	Max. DC Conduc resistance at 20°C C C (Ohm/km)	Nominal Insulation thickness (mm)	Min. DC resistance at 20°C (m. ohm . km)	Nominal sheath thickness (mm)	Outer Diameter (mm)	PVC ins. Thickness (mm)	Outer Diameter (mm)	Approx. (mm)	Approx. kg/km	m	mm	A	A
35	50	6.8	0.868	5.5	4400	2.5	27.1	1.2	11.6	58.4	2920	500	701	130	110
50	50	7.9	0.641	5.5	4100	2.5	28.2	1.2	11.6	60.8	3128	500	730	159	134
70	50	9.6	0.443	5.5	3600	2.5	29.8	1.2	11.6	64.3	3455	500	772	193	163
95	50	11.3	0.32	5.5	3200	2.5	31.5	1.2	11.6	68	3829	500	816	240	203
120	50	12.7	0.253	5.5	3000	2.5	32.9	1.2	11.6	71.1	4172	500	853	277	234
	1.2							13.4	71.1	4357	500	853	277	234	
150	50	14	0.206	5.5	2800	2.5	34.2	1.2	11.6	74	4735	500	888	326	275
	1.2							13.4	74	4920	500	888	326	275	
	1.2							15.2	74	5136	500	888	326	275	