



• Application

DIN VDE 0276 -620 medium voltage power cables are suitable for distribution networks. They are also for connection to generation units and plant and process connection. To be laid directly in ground, outdoors, indoors and in cable ducts.

• Performance

Voltage rating: U0/U(Um): 12/20(24)kV

Test Voltage: 42KV

Mechanical performance:

-Minimum bending radius of single core: 20 x overall diameter

-Minimum bending radius of multi cores: 15 x overall diameter

Thermal performance :

-Maximum operating temperature: 90°C

-Maximum short-circuit temperature: 250°C(Max.5s)

-Minimum service temperature: -10°C

Fire performance:

-Flame retardant according to IEC/EN 60332-1-2 standard

-Reduced emission of halogens chlorine <15%

• Construction

Conductor: class 2 copper or aluminum conductor

Inner semi-conductive layer: semi-conducting material

Insulation: XLPE (cross-linked polyethylene)

Outer semi-conductive layer: semi-conducting material

Metallic Screen: concentric copper wires

Waterblocking - Longitudinal (optional): swellable tape

Outer Sheath: PVC (polyvinyl chloride) or PE (polyethylene)

Sheath Colour: red(PVC), black (PE) or other available colour in accord with the request

Core Identification:

-Single Core: Red or Black

-Three Core: Red, Yellow and blue

Sheath Colour: red, black or other available colour in accord with the request

• Specification

-DIN VDE 0276-620, HD 620, EN 60228

-Flame retardant according to IEC/EN 60332-1-2 standard

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Physical Performance					
No. of Cores	Nominal Cross Section Area		Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Nominal Overall Dia.
	Conductor	Copper Wire Screen			
-	mm ²	mm ²	mm	mm	mm
1	35	RM/16	5.5	1.8	26
1	50	RM/16	5.5	1.8	27
1	70	RM/16	5.5	1.9	29
1	95	RM/16	5.5	1.9	31
1	120	RM/16	5.5	2	32
1	150	RM/25	5.5	2	34
1	185	RM/25	5.5	2.1	36
1	240	RM/25	5.5	2.1	38
1	300	RM/25	5.5	2.2	40
1	400	RM/35	5.5	2.3	44
1	500	RM/35	5.5	2.4	47

Electrical Performance						
No. of Cores	Nominal Cross Section Area		Current Carrying Capacity (Copper Conductor)		Current Carrying Capacity (Aluminum Conductor)	
	Conductor	Copper Wire Screen	in ground	in air	in ground	in air
-	mm ²	mm ²	A	A	A	A
1	35	RM/16	187	197	145	153
1	50	RM/16	220	236	171	183
1	70	RM/16	268	294	208	228
1	95	RM/16	320	358	248	278
1	120	RM/16	363	413	283	321
1	150	RM/25	405	468	315	364
1	185	RM/25	456	535	357	418
1	240	RM/25	526	631	413	494
1	300	RM/25	591	722	466	568
1	400	RM/35	662	827	529	660
1	500	RM/35	739	921	-	-