



• Application

Multi-core PVC-sheathed power cables with steel wire armour (SWA) are versatile solutions for power and auxiliary fixed wiring applications in power networks. Designed for both underground and aboveground installations, they are suitable for indoor and outdoor use, including cable ducting installations.

• Performance

Electrical Performance: Rated U_0/U : 0.6/1kV, ensuring reliable power transmission within specified voltage ranges.

Chemical Performance: Exhibits resistance to chemicals, UV rays, and oils, ensuring durability and reliability in various environments.

Mechanical Performance: Minimum bending radius of 12 times the overall diameter ensures flexibility and ease of installation.

Terminal Performance:

Maximum Service Temperature: 90°C

Maximum Short-Circuit Temperature: 250°C (max. 5s)

Minimum Service Temperature: -10°C

Fire Performance:

Flame Retardant: Complies with IEC/EN 60332-1-2 standard for enhanced fire safety.

Reduced Emission of Halogens Chlorine: <15%

• Construction

Conductor: Class 2 circular stranded copper or aluminum conductor; compact sectorial copper or aluminum conductor for efficient conductivity and flexibility.

Insulation: XLPE (Cross-linked Polyethylene) insulation provides excellent electrical properties and thermal stability.

Bedding: PVC (Polyvinyl Chloride) bedding offers additional protection and insulation.

Armoring: SWA (Steel Wire Armour) provides robust mechanical protection against external forces.

Sheath: PVC (Polyvinyl Chloride) or PE (Polyethylene) sheath ensures overall protection and durability.

Core Identification:

Two cores: Brown, Blue

Three cores: Brown, Black, Gray or Blue, Brown, Green/Yellow

Four cores: Brown, Black, Blue, Gray or Brown, Black, Gray, Green/Yellow

Four cores with reduced neutral conductors: Brown, Black, Blue, Gray or Brown, Black, Gray, Green/Yellow

Five cores: Brown, Blue, Black, Gray, Green/Yellow

Sheath Colour: Black, providing added protection and a uniform appearance.

• Specification

-BS 5467, low voltage armored cables with thermosetting insulation for power distribution networks

-IEC/EN 60502-1, IEC/EN 60228 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 and Resistance											
No. of Cores	Nominal Cross Section Area	Min. No. of Individual Wires in Conductor						Nominal Thickness of Insulation	Diameter of Armour Wire	Max. D.C. Resistance of Conductor at 20°C	
		Circular		Circular Compact		Sectorial				Cu	Al
		Cu	Al	Cu	Al	Cu	Al				
-	mm ²	-	-	-	-	-	-	mm	mm	Ω/km	Ω/km
2,3,4,5	1.5	7	-	6	-	-	-	0.7	1.25	12.1	-
2,3,4,5	2.5	7	-	6	-	-	-	0.7	1.25	7.41	-
2,3,4,5	4	7	-	6	-	-	-	0.7	1.25	4.61	-
2,3,4,5	6	7	-	6	-	-	-	0.7	1.25	3.08	-
2,3,4,5	10	7	7	6	6	-	-	0.7	1.25	1.83	-
2,3,4,5	16	7	7	6	6	-	-	0.7	1.6	1.15	1.91
2,3,4,5	25	7	7	6	6	6	6	0.9	1.6	0.727	1.20
2,3,4,5	35	7	7	6	6	6	6	0.9	1.6	0.524	0.868
2,3,4,5	50	19	19	6	6	6	6	1.0	2.0	0.387	0.641
2,3,4	70	19	19	12	12	12	12	1.1	2.0	0.268	0.443
2,3,4	95	19	19	15	15	15	15	1.1	2.5	0.193	0.320
2,3,4	120	37	37	18	15	18	15	1.2	2.5	0.153	0.253
2,3,4	150	37	37	18	15	18	15	1.4	2.5	0.124	0.206
3,4	185	37	37	30	30	30	30	1.6	2.5	0.0991	0.164
3,4	240	37	37	34	30	34	30	1.7	2.5	0.0754	0.125
3,4	300	61	61	34	30	34	30	1.8	3.15	0.0601	0.100
3,4	400	61	61	53	53	53	53	2.0	3.15	0.0470	0.0778

● Technical Parameters

Electrical Performance Current Carrying Capacity (Copper Conductor)						
Nominal Cross Section Area	Reference Method C (Clipped Direct)		Reference Method E (in free air or on a perforated cable tray horizontal or vertical)		Reference Method D (in free air or on a perforated cable tray horizontal or vertical)	
	1 two core cable single- phase A.C. or D.C.	1 there or 1 four core cable three-phase A.C.	1 two core cable single- phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C.	1 two core cable single- phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C.
mm ²	A	A	A	A	A	A
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	364
400	787	673	847	728	-	570

Note:

Air ambient temperature: 30°C

Ground ambient temperature: 20°C

Conductor operating temperature: 90°C