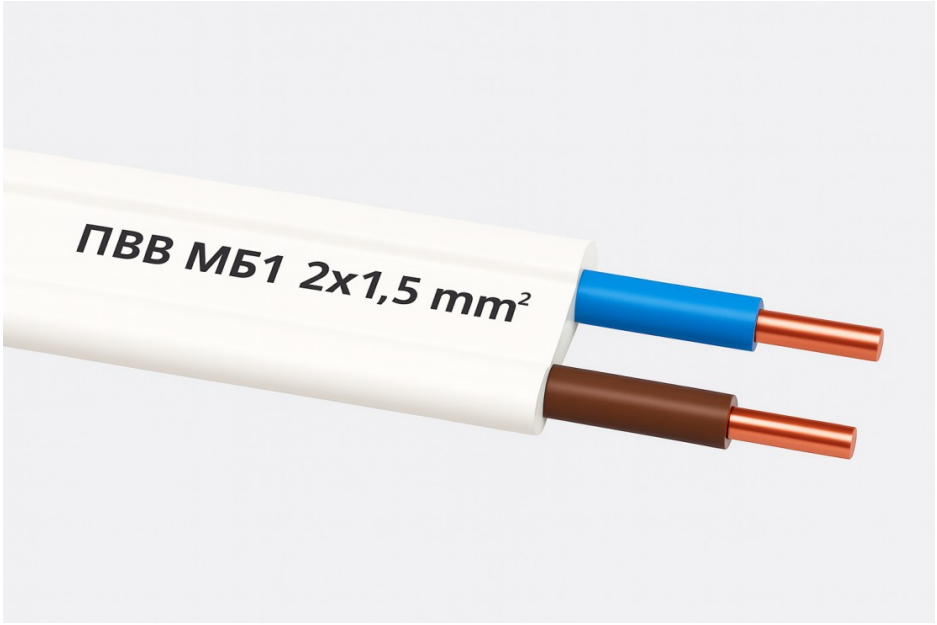
CABLE DATA for ПВВ-МБ1

General Information



Cable Standard(s)

- БДС 4305–90

Construction Product Regulation (CPR) Classification

- Regulation: Compliant with the EU Regulation (EU) No. 305/2011 on construction products.
- Intended Use: Suitable for general applications in construction works with fire safety requirements.
- Harmonized Standard: EN 50575:2014
- Reaction to Fire Classification: Eca (according to EN 13501–6)
- Release of Dangerous Substances: N.P.D. (No Performance Determined)

Flame Retardant Properties

- The cable complies with the self–extinguishing requirements specified in БДС IEC 60332–1 (single vertical wire flame test).

Temperature Ratings

- Minimum temperature for installation and handling: -5°C
- Maximum continuous conductor temperature: +70 °C
- Maximum short–circuit conductor temperature (max 5 seconds): +160°C
- Permissible ambient temperature range during operation: –25°C to +50°C

Minimum Bending Radius *(D = cable thickness)*

- 10 × D

Application of the cable

- Flat, multi-core bridge cable primarily used for fixed installations in lighting networks, power, and signaling systems in in residential and industrial settings.
- Suitable for use in: lighting networks, power installations and signaling systems.
- Can be laid under plaster, in cable ducts, or on supporting structures.
- Appropriate for dry and humid environments.

Cable Construction and Electrical Properties

Conductor(s)

- Copper conductors Class 1 (solid) in accordance with БДС IEC 60228.

Insulation

- PVC compound type TI1 according to БДС HD 21.1
- Cores lie parallel, with or without a green–yellow protective conductor.
- Insulation colors according to EN 60445:
  - Protective Earth (PE) – Green/Yellow striped
  - Neutral (N) – Blue
  - Line / Phase Conductors (L) – Brown, Black.

Sheath

- PVC compound type TM1 according to БДС HD 21.1.
- Sheath color: Black, Gray or White.

Rated Voltage

- Uo/U = 220/380 V

Test Voltage

- 2 kV AC

Dimensional Specifications

№	Construction [n×mm²]	Metal index [kg/km]	Weight (approx.) [kg/km]		Dimensions (approx.) [mm]		Resistance at 20°C [Ω/km]	Ampacity (range) in air at 30°C [A]
			one bridge	two bridges	one bridge	two bridges		
1	2×1,0	19,2	48	–	☐ 3,4×10,0	–	18,1	13–15
2	2×1,5	28,8	64	–	☐ 4,0×10,9	–	12,1	18–20
3	2×2,5	48,0	95	–	☐ 4,7×12,5	–	7,41	24–27
4	2×4,0	76,8	138	–	☐ 5,5×14,6	–	4,61	32–35
5	2×6,0	115,2	190	–	☐ 6,3×15,8	–	3,08	36–41
6	3×1,0	28,8	70	75	☐ 3,4×13,4	☐ 3,4×16,5	18,1	13–15
7	3×1,5	43,2	93	99	☐ 4,0×14,9	☐ 4,0×18,2	12,1	18–20
8	3×2,5	72,0	140	145	☐ 4,7×17,3	☐ 4,7×20,3	7,41	24–27
9	3×4,0	115,2	201	208	☐ 5,5×19,4	☐ 5,4×23,9	4,61	32–35
10	3×6,0	172,8	208	288	☐ 6,3×22,0	☐ 6,3×25,4	3,08	36–41

- Standard ranges based on IEC 60228/EN 50525–2–11 and depending on temperature and installation method.