

2XSH 8.7/15 kV

IEC 60602-2:2024

- Power cables with single copper conductor, XLPE insulation, concentric metallic screen and LSOH outer sheath, with special fire performance for use in fixed installations in air and ducts



Construction

Conductors	Copper, class 2
Conductor screen	Semi-cond compound
Insulation	XLPE
Insulation screen	Semi-cond compound
Semi-cond. layer	Semi-cond tape(s)
Metallic screen	Copper wires + tape(s)
Additional layer	Polyester tape(s)
Outer sheath	LSOH

Characteristic

Test voltage	$3,5 \times U_0 / 5$ minutes
Partial discharge	max. $5 \text{ pC} / 2 \times U_0$
Conductor continuous operation temperature	+90°C
Conductor short-circuit temperature	+250°C
Pulling force	$50 \times S$ (S = Cu cross-section in mm ²) [N]
Lowest temperature during laying	0°C
Bending radius	15 x d (d = diameter of cable)
Symbols	2XSH – power cable with copper conductor, XLPE insulation (2X), copper screen (S) and LSOH outer sheath (H)

Parameters

Conductor cross-section	Metallic screen cross-section	Nominal thickness of jacket		Overall diameter (approx.)	Weight (approx.)	Max conductor resistance	
		Insulation	Outer sheath			DC 20°C	AC 90°C
mm ²	mm ²	mm	mm	mm	kg/km	Ω/km	Ω/km
50	16	4,5	1,8	25,7	1000	0,387	0,496
70	16	4,5	1,8	26,6	1200	0,268	0,345
95	16	4,5	1,9	28,1	1550	0,193	0,249
120	16	4,5	1,9	29,6	1800	0,153	0,198
150	25	4,5	2,0	31,0	2200	0,124	0,163
185	25	4,5	2,0	32,7	2650	0,0991	0,131
240	25	4,5	2,1	35,5	3100	0,0754	0,101
300	25	4,5	2,2	38,0	3700	0,0601	0,083
400	35	4,5	2,3	41,5	4700	0,047	0,066
500	35	4,5	2,4	44,8	5900	0,0366	0,053
630	35	4,5	2,5	49,0	7150	0,0283	0,043