



HIGHER-VOLTAGE SINGLE-CORE RAIL VEHICLE CABLE

EN 50264-3-1

14 orderable sizes

STANDARD EN 50264-3-1	VOLTAGE CLASS 1.8/3 kV	TEMPERATURE CLASS -45 °C to +120 °C fixed guide
CONDUCTOR Class 5 tinned copper conductor	INSULATION / JACKET Insulation-only rolling stock single core	

Construction

- 1** **Conductor** – Class 5 tinned copper conductor · 196 × Ø0.4 mm · IEC 60228 cl.5
- 2** **Insulation** – Electron-beam cross-linked halogen-free insulation

Size selection — all available cross-sections

Cable reference	Onboard duty	Wall system	Core / pair design	Conductor size	Voltage class	Fire class	Max DC resistance at 20 °C	OD guide
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 2.5 mm ²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	2.5 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	10.4 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 4 mm ²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	4 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	4.7 Ω/km	11.3 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 6 mm ²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	6 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	3.1 Ω/km	12.1 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 10 mm ²	Main power and converter wiring	Standard wall higher-voltage	1 core	10 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	1.83 Ω/km	13.5 mm

Cable reference	Onboard duty	Wall system	Core / pair design	Conductor size	Voltage class	Fire class	Max DC resistance at 20 °C	OD guide
		single core						
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 16 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	16 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	1.15 Ω/km	15.2 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 25 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	25 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.727 Ω/km	17.1 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 35 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	35 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.524 Ω/km	18.9 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 50 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	50 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.387 Ω/km	21.1 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 70 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	70 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.268 Ω/km	23.7 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 95 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	95 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.193 Ω/km	26.4 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 120 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	120 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.153 Ω/km	28.7 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 150 mm²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	150 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.123 Ω/km	31.2 mm

Cable reference	Onboard duty	Wall system	Core / pair design	Conductor size	Voltage class	Fire class	Max DC resistance at 20 °C	OD guide
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 185 mm ²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	185 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.100 Ω/km	33.9 mm
EN 50264 single core 1.8/3 kV 1.8/3 kV Main power and converter wiring 1 core 240 mm ²	Main power and converter wiring	Standard wall higher-voltage single core	1 core	240 mm ²	1.8/3 kV	EN 45545-2 HL1 to HL3 material system	0.077 Ω/km	37.6 mm

UE Cable · China — sales@uecable.com · uecable.com Confirm colour, printing, packing length, delivery country and test documents on enquiry.