



THIN WALL MULTICORE TRAIN CABLE

EN 50306-4

40 orderable sizes

STANDARD EN 50306-4	VOLTAGE CLASS 300/500 V	TEMPERATURE CLASS 90 °C or 105 °C class guide
CONDUCTOR Class 5 tinned copper conductor	INSULATION / JACKET Thin wall halogen-free rolling stock sheath	

Construction

- 1 ■ Conductor (per core) – Class 5 tinned copper conductor · 16 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ Core insulation – Thin wall halogen-free core insulation
- 3 ■ Filler – PP filler
- 4 ■ Sheath – Thin wall halogen-free rolling stock sheath

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 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 2 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	2 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	8.9 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 2 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	2 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	9.2 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 2 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	2 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	9.5 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore	Space-saving multicore	Thin wall multicore sheath	2 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3	12.7 Ω/km	9.9 mm

Cable reference	Onboard duty	Wall system	Core / pair design	Conductor size	Voltage class	Fire class	Max DC resistance at 20 °C	OD guide
multicore control wiring 2 core 1.5 mm ²	control wiring					material system		
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 2 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	2 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	10.6 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 3 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	3 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	9.4 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 3 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	3 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	9.7 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 3 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	3 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	10.0 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 3 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	3 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	10.4 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 3 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	3 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	11.1 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 4 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	4 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	9.8 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 4 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	4 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	10.1 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 4 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	4 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	10.3 mm

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EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 4 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	4 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	10.8 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 4 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	4 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	11.5 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 7 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	7 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	10.7 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 7 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	7 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	11.0 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 7 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	7 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	11.3 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 7 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	7 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	11.7 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 7 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	7 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	12.4 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 12 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	12 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	11.9 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 12 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	12 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	12.2 mm

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EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 12 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	12 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	12.5 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 12 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	12 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	12.9 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 12 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	12 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	13.6 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 19 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	19 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	13.2 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 19 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	19 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	13.5 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 19 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	19 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	13.8 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 19 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	19 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	14.2 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 19 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	19 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	14.9 mm
EN 50306 thin wall multicore 300/500 V	Space-saving	Thin wall multicore	24 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to	37.1 Ω/km	14.0 mm

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Space-saving multicore control wiring 24 core 0.5 mm ²	multicore control wiring	sheath				HL3 material system		
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 24 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	24 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	14.3 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 24 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	24 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	14.6 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 24 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	24 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	15.0 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 24 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	24 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	15.7 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 48 core 0.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	48 core	0.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	37.1 Ω/km	16.9 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 48 core 0.75 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	48 core	0.75 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	24.7 Ω/km	17.2 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 48 core 1.0 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	48 core	1.0 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	18.5 Ω/km	17.5 mm

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EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 48 core 1.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	48 core	1.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	12.7 Ω/km	17.9 mm
EN 50306 thin wall multicore 300/500 V Space-saving multicore control wiring 48 core 2.5 mm ²	Space-saving multicore control wiring	Thin wall multicore sheath	48 core	2.5 mm ²	300/500 V	EN 45545-2 HL1 to HL3 material system	7.6 Ω/km	18.6 mm

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