

Rail Transit Cable

Rail transit cable for transport electrical systems

Rail Transit Cable is prepared for preliminary product selection and quotation review. This product is used for rail transit electrical systems where flame performance, smoke emission, mechanical protection and installation environment must be reviewed.



VOLTAGE

300V, 1.8/3kV, 3.6/6kV

CONDUCTOR

Tinned copper conductor route, confirmed by technical table

TYPICAL USE

Railway and metro systems

STANDARDS

EN 50306; EN 45545-2; EN 50382; EN 50264-3-1

DATA SCOPE

1 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm special performance, voltage, conductor, standard and installation condition.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- Railway and metro systems
- stations
- tunnels
- trackside electrical routes
- transport infrastructure power and control circuits.

Selection logic

- Confirm voltage, conductor size, fire performance, LSZH requirement, mechanical protection and rail project standard.

Construction Overview

Item	Website-ready content
Product route	Conductor, insulation, optional screen/armour and sheath construction depend on the rail transit cable standard and installation route.
Voltage	300V, 1.8/3kV, 3.6/6kV
Conductor	Tinned copper conductor route, confirmed by technical table
Standards	EN 50306; EN 45545-2; EN 50382; EN 50264-3-1
Confirmation	Final structure, dimensions and packing should follow selected standard, quotation review and order specification.

Readable Data Index

Data route	Size / rating range	Construction	Diameter / OD	Resistance / weight / rating
Rail Transit Cable - Technical Table 1	1.5 - 240 c	Class 5 Tinned Cu	See table	13.7 - 0.081

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

Rail Transit Cable - Technical Table 1

Reference table for preliminary selection and quotation review.

Nom. Area (mm²)	Core Type	Approx. OD (mm)	Approx. Weight (kg/km)	Current Rating @ 90°C (A)	Max. Resistance (Ω/km)
1.5	Class 5 Tinned Cu	6.2	55	30	13.7
2.5	Class 5 Tinned Cu	6.8	70	40	8.21
4.0	Class 5 Tinned Cu	7.4	95	54	5.09
10	Class 5 Tinned Cu	9.5	180	98	1.95
35	Class 5 Tinned Cu	14.5	450	225	0.565
70	Class 5 Tinned Cu	18.8	820	355	0.277
120	Class 5 Tinned Cu	22.5	1350	500	0.164
240 c	Class 5 Tinned Cu	28.5	2550	750	0.081