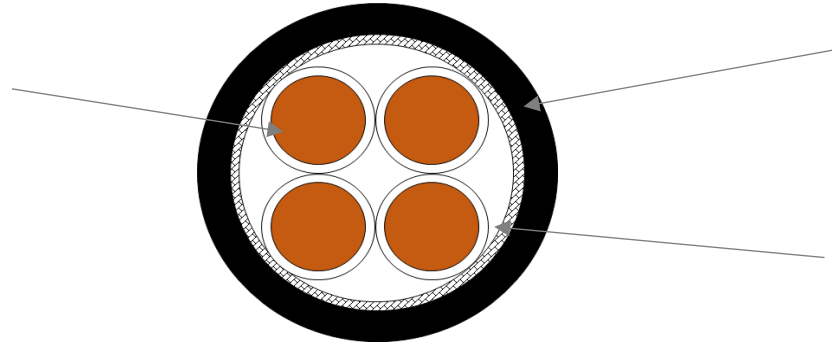


EN 50306-3, Single and Multi Core, Screened and Sheathed,
300V AC, EBXL 120°C Rolling Stock Cable

The complete requirements for procuring the wire described herein shall consist of this document.

Component Wire
EN50306-2-RAIL



Sheath
EBXL - EM 104
Black

Screen
Tinned Copper
Braid

Part Number	Nominal		Maximum Resistance @ 20°C (Ohms/km)	Core Diameter Max. (mm)	Sheath Thickness Min. (mm)	Outer Diameter (mm)		Approx. Cable Weight (kg/km)
	No. of Cores (No.)	Cross Sectional Area (mm ²)				Min.	Max.	
EN50306-3-RAIL-1X0.50	1	0.50	40.1	1.45	0.20	2.3	2.9	15
EN50306-3-RAIL-2X0.50	2	0.50	40.1	1.45	0.20	3.5	4.4	32
EN50306-3-RAIL-3X0.50	3	0.50	40.1	1.45	0.20	3.7	4.7	38
EN50306-3-RAIL-4X0.50	4	0.50	40.1	1.45	0.20	4.0	5.2	46
EN50306-3-RAIL-6X0.50	6	0.50	40.1	1.45	0.20	5.5	6.5	67
EN50306-3-RAIL-8X0.50	8	0.50	40.1	1.45	0.20	6.1	7.1	86
EN50306-3-RAIL-1X0.75	1	0.75	26.7	1.65	0.20	2.5	3.1	19
EN50306-3-RAIL-2X0.75	2	0.75	26.7	1.65	0.20	3.9	4.8	41
EN50306-3-RAIL-3X0.75	3	0.75	26.7	1.65	0.20	4.0	5.2	49
EN50306-3-RAIL-4X0.75	4	0.75	26.7	1.65	0.20	4.5	5.7	59
EN50306-3-RAIL-6X0.75	6	0.75	26.7	1.65	0.20	6.1	7.1	87
EN50306-3-RAIL-8X0.75	8	0.75	26.7	1.65	0.20	7.3	8.3	112
EN50306-3-RAIL-1X1.00	1	1.00	20.0	1.80	0.20	2.7	3.3	21
EN50306-3-RAIL-2X1.00	2	1.00	20.0	1.80	0.20	4.2	5.3	46
EN50306-3-RAIL-3X1.00	3	1.00	20.0	1.80	0.20	4.5	5.7	56
EN50306-3-RAIL-4X1.00	4	1.00	20.0	1.80	0.20	5.0	6.2	70
EN50306-3-RAIL-6X1.00	6	1.00	20.0	1.80	0.20	6.3	7.3	103
EN50306-3-RAIL-8X1.00	8	1.00	20.0	1.80	0.20	7.5	8.5	135
EN50306-3-RAIL-1X1.50	1	1.50	13.7	2.30	0.20	3.1	3.7	28
EN50306-3-RAIL-2X1.50	2	1.50	13.7	2.30	0.20	5.1	6.2	65
EN50306-3-RAIL-3X1.50	3	1.50	13.7	2.30	0.20	5.4	6.6	80
EN50306-3-RAIL-4X1.50	4	1.50	13.7	2.30	0.20	6.0	7.2	100
EN50306-3-RAIL-6X1.50	6	1.50	13.7	2.30	0.20	7.3	8.3	149
EN50306-3-RAIL-8X1.50	8	1.50	13.7	2.30	0.20	8.5	9.5	195



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Part Number	Nominal		Maximum Resistance @ 20°C (Ohms/km)	Core Diameter Max. (mm)	Sheath Thickness Min. (mm)	Outer Diameter (mm)		Approx. Cable Weight (kg/km)
	No. of Cores (No.)	Cross Sectional Area (mm ²)				Min.	Max.	
EN50306-3-RAIL-1X2.50	1	2.50	8.21	2.85	0.20	3.6	4.5	43
EN50306-3-RAIL-2X2.50	2	2.50	8.21	2.85	0.20	6.4	7.5	95
EN50306-3-RAIL-3X2.50	3	2.50	8.21	2.85	0.20	6.8	8.0	120
EN50306-3-RAIL-4X2.50	4	2.50	8.21	2.85	0.20	7.5	8.7	150

Marking

The cables shall be marked:

"TE CONNECTIVITY EN 50306-3 300V (C) X § MM S 105 Batch Number"

Where "§" = The nominal conductor cross-sectional area

Where "(C)" = The number of cores

Spaced ≤ 500mm longitudinally, measurement taken from beginning of mark.

Technical Data

Temperature Range -40°C to +120°C

Rated Voltage: 300 V AC

Specification: BS EN 50306-3:2020

Conductor: BS EN 50306-2:2020

In addition to BS EN 50306-3 Specification, products also meet fire performance tests as per:

UNI CEI 11170-3

DIN 5510-2

NF F 16-101

EN 45545-2

Approval

Electronic sign off - no signatures will appear.