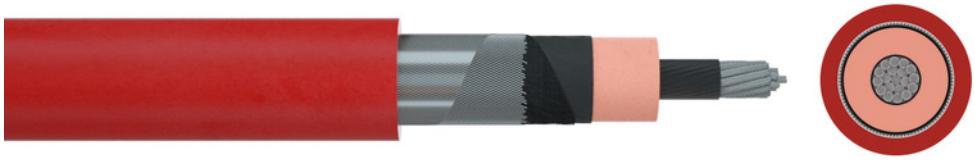
Flexible cable connections
TENAX®-TRAIN-Plus (N)TMCWOEU



Application: Flexible medium voltage single-core cable are generally used in short lengths, e.g. to connect switch cells or mobile transformer stations to the overhead line. They can also be used to connect current collectors in locomotives and trains. During installation and operation, they should be protected against major mechanical stresses. In addition, the general specifications in DIN VDE 0298-3 apply. Can be used in rail vehicles with hazard level HL3 according to DIN EN 45545-1(2013).

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 1314-41-6

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	tinned copper braid
Sheathing material:	cross-linked elastomer EM 104
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	DIN EN 60811-2-1(A)
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

TENAX® -TRAIN-Plus (N)TMCWOEU 26/45 kV

Nominal voltage Uo: 26 kV

Nominal voltage U: 45 kV

Test voltage: 87 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
051518	1X50/16	0.393	237	7.15	38	692	1892
051750	1X70/16	0.277	291	10	40	888	2143
051365	1X95/16	0.21	351	13.6	42.5	1127	2538
051805	1X120/16	0.164	408	17.2	45	1458	2996
051804	1X120/25	0.164	408	17.2	45	1490	3068
052129	1X150/25	0.132	470	21.5	45.4	1728	3359
052056	1X185/25	0.108	536	26.6	48.5	2072	3728
051520	1X240/25	0.0817	632	34.3	51	2659	4354

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

