

Medium voltage reeling cable

TENAX[®]-TTS LWL (N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Main applications are e.g. festoon, high-speed container cranes, crane systems, mobile large equipment.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI6
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	20 N/mm ²
Operating speed:	180 m/min.



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[®] TTS-LWL (N)TSCGEWUEU 6/10 kV

Nominal voltage U_o:	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Test voltage:	17 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zp} [N]	F _{zd} [N]	Cu	G [kg]
052453	3X35 + 2X25/2 + 12G62.5 RD-YE	0.554	162	5.01	45	2100	2625	1248	3028
053030	3X50 + 2X25/2 + 12G62.5 RD-YE	0.386	202	7.15	48	3000	3750	1680	3589
053045	3X70 + 02X35/2 + 12G62,5 BK-YE	0.272	250	10.01	55	4200	5250	2352	4880

TENAX[®] TTS-LWL (N)TSCGEWUEU 6/10 kV (with control cores)

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Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Test voltage:	17 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zp} [N]	F _{zd} [N]	Cu	G [kg]
053047	3x35 + 1G25 + 1x(6x2.5 ST) + 1X(12G62.5/125 LWL) RD-YE	0.554	162	5.01	54	2100	2625	1480	3900
053048	3x50 + 1G25 + 3x(2x2.5) + 1x(12E9/125 LWL) RD-YE	0.386	202	7.15	59	3000	3750	1824	5047

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _k	Short-circuit current (1 s)
Ø	outer diameter approx.
F _{zp}	Tensile strength (permanent)
F _{zd}	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000