



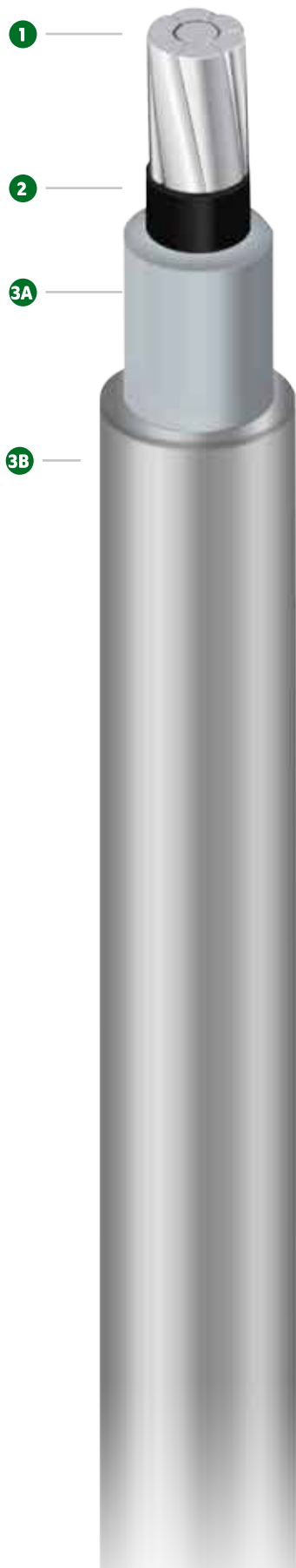
Indugrex AL TR Double Layer Cable

XLPE/HDPE 15 kV to 35 kV

INDUGREX AL TR DOUBLE LAYER CABLE

XLPE/HDPE 15 kV to 35 kV

Construction



1 Conductor: 1350 aluminum alloy, class 2 stranding, compacted and waterblocked.

2 Conductor shield: Thermoset semiconducting compound applied in every voltage level to guarantee a perfect electric field distribution.

Covering:

3A Inner layer: XLPE 90 °C natural thermoset compound, with excellent electrical properties.

3B Outer layer: High density polyethylene (HDPE) compound UV, tracking and abrasion resistant, providing total dielectric compatibility among the cable, the spacers and the remaining accessories used in the overhead spacer system.

Note: The two layers are totally stucked between themselves. The conductor screen and the two layers of the covering are simultaneously applied in one only extrusion process.

excellent option in places where there is possible contact of the cable with tree branches, reducing the interval between pruning and increasing the reliability in the system by reducing the number of interruptions. Reduced distance between phases enables better visual appearance and the use of multiple circuits in a single structure.

Advantages of double layer covered cable compared to single layer covered cable:

High density (HDPE) covering used as outer layer provides the following advantages compared to single XLPE layer covered cable:

- better resistance to electrical tracking;
- better dielectric compatibility among the cable and the accessories used in the spacer cable systems;
- better resistance to abrasion caused by tree branches over the cable covering;
- reduced water absorption;
- better electrical performance due to pure natural polyethylene used as inner layer.

Identification

Indugrex TR Double Layer cables are generally supplied in gray color.

Application

Used in overhead power distribution networks at **15 kV** up to **35 kV** voltages between phases, Indugrex TR Double Layer cable is supplied with weatherproof, ultraviolet radiation, mechanical abrasion and electric tracking (discharges caused by contact with trees and humidity) resistant covering, which makes it an

Packing

Wooden reels.

Specifications

ABNT NBR 11873 Covered cables with polymeric material for overhead distribution lines in spacers for voltages **13.8 kV** up to **34.5 kV**, where applicable.

INDUGREX AL TR DOUBLE LAYER CABLE [15 KV]					
CODE	CONDUCTOR		COVERING		TOTAL WEIGHT
	SIZE	NOMINAL DIAMETER	NOMINAL THICKNESS XLPE/HDPE	NOMINAL DIAMETER	Kg/Km
	(mm ²)	(mm)	(mm)	(mm)	
143401015	35	7,0	1,5+1,5	14,2	216
143401016	50	8,30		15,5	263
143401017	70	9,90		17,1	341
143401018	95	11,6		18,8	430
143401019	120	13,2		20,4	515
143401020	150	14,3		21,5	600
143401021	185	16,1		23,3	725
143401022	240	18,5		25,7	905
143401023	300	20,5		27,7	1.087

INDUGREX AL TR DOUBLE LAYER CABLE [25 KV]					
CODE	CONDUCTOR		COVERING		TOTAL WEIGHT
	SIZE	NOMINAL DIAMETER	NOMINAL THICKNESS XLPE/HDPE	NOMINAL DIAMETER	Kg/Km
	(mm ²)	(mm)	(mm)	(mm)	
142901015	35	7,0	2,0+2,0	16,2	260
142901016	50	8,30		17,5	312
142901017	70	9,90		19,1	394
142901018	95	11,6		20,8	488
142901019	120	13,2		22,4	578
142901020	150	14,3		23,5	667
142901021	185	16,1		25,3	796
142901022	240	18,5		27,7	983
142901023	300	20,5		29,7	1.171

INDUGREX AL TR DOUBLE LAYER CABLE [35 KV]					
CODE	CONDUCTOR		COVERING		TOTAL WEIGHT
	SIZE	NOMINAL DIAMETER	NOMINAL THICKNESS XLPE/HDPE	NOMINAL DIAMETER	Kg/Km
	(mm ²)	(mm)	(mm)	(mm)	
1435501017	70	9,90	3,8+3,8	26,3	633
1435501018	95	11,6		28,0	745
1435501019	120	13,2		29,6	851
1435501020	150	14,3		30,7	951
1435501021	185	16,1		32,5	1,100
1435501022	240	18,5		34,9	1,312
1435501023	300	20,5		36,9	1,521



A escolha de quem conhece



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