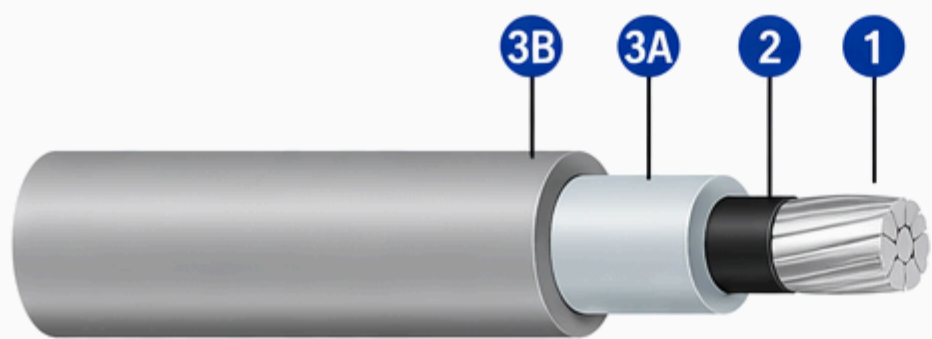


INDUGREX AL TR DOUBLE LAYER CABLE

XLPE/HDPE 15 kV to 35 kV



CONSTRUCTION

- 1
- Conductor:** Aluminum, alloy 1350, compacted circular stranded (Class 2), longitudinally water-blocked.
- 2
- Conductor Shield:** Semiconducting thermosetting compound for all voltage classes to ensure proper electric field distribution.

Jacket:

- 3A
- Inner Layer:** Thermosetting cross-linked polyethylene compound (XLPE 90 °C), natural, with excellent electrical properties.
- 3B
- Outer Layer:** High-density polyethylene (HDPE) compound resistant to weathering, electrical tracking, ultraviolet radiation, and mechanical abrasion, ensuring full dielectric compatibility between the cable, spacers, and other network accessories.

Note: The two jacket layers are completely bonded together. The semiconducting layer and both jacket layers are applied simultaneously in a single extrusion process.

IDENTIFICATION

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

APPLICATION

Used in overhead power distribution networks for voltages from 15 kV to 35 kV between phases, the Indugrex TR Double Layer cable features a jacket resistant to weather, UV radiation, mechanical abrasion, and electrical tracking (discharges caused by contact with tree branches and moisture). It is an excellent solution for areas with possible contact with vegetation, reducing pruning frequency and increasing system reliability by minimizing interruptions. Network compacting improves visual appearance and allows multiple circuits on a single structure.

ADVANTAGES

- Compared to XLPE-covered cables, HDPE outer layer provides:
- Higher resistance to electrical tracking;
 - Better dielectric compatibility with network accessories;
 - Greater resistance to abrasion from tree branches;
 - Lower moisture absorption;
 - Improved electrical performance (inner XLPE layer is pure and additive-free).

PACKAGING

Normally supplied on wooden reels.

SPECIFICATIONS

ABNT NBR 11873 – Covered cables with polymeric material for overhead power distribution networks mounted on spacers, for voltages from 13.8 kV to 34.5 kV, where applicable.

INDUGREX AL TR DOUBLE LAYER CABLE [15 kV]

REFERENCE	CONDUCTOR		JACKET		TOTAL WEIGHT (kg/km)
	NOMINAL SECTION (mm²)	NOMINAL DIAMETER (mm)	XLPE/HDPE THICKNESS (mm)	OVERALL DIAMETER (mm)	
143401015	35	7	1,5 + 1,5	14,2	216
143401016	50	8,3		15,5	263
143401017	70	9,9		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]

REFERENCE	CONDUCTOR		JACKET		TOTAL WEIGHT (kg/km)
	NOMINAL SECTION (mm²)	NOMINAL DIAMETER (mm)	XLPE/HDPE THICKNESS (mm)	OVERALL DIAMETER (mm)	
142901015	35	7	2,0 + 2,0	16,2	260
142901016	50	8,3		17,5	312
142901017	70	9,9		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]

REFERENCE	CONDUCTOR		JACKET		TOTAL WEIGHT (kg/km)
	NOMINAL SECTION (mm²)	NOMINAL DIAMETER (mm)	XLPE/HDPE THICKNESS (mm)	OVERALL DIAMETER (mm)	
143501017	70	9,9	3,8 + 3,8	26,3	633
143501018	95	11,6		28,0	745
143501019	120	13,2		29,6	851
143501020	150	14,3		30,7	951
143501021	185	16,1		32,5	1.100
143501022	240	18,5		34,9	1.312
143501023	300	20,5		36,9	1.521