Product Overview

TYIR / TYIR 50 OL-AL is a PVC-insulated bundled overhead line cable designed for low-voltage power distribution networks with a rated voltage of 0.6/1 kV (U_0/U).

The cable features concentrically stranded aluminium phase conductors and a steel-aluminium supporting neutral conductor. PVC insulation provides electrical insulation for the phase conductors, while the supporting conductor provides mechanical support for overhead installation.

Available in configurations for single-phase and three-phase electrical connections, this cable is suitable for household electricity supply and public lighting networks.

Applications

TYIR / TYIR 50 OL-AL cable is designed for overhead power distribution networks with rated voltages up to 0.6/1 kV.

Typical applications include:

- Single-phase electrical service connections
- Three-phase electrical service connections
- Low-voltage power supply to residential consumers
- Single-phase public lighting networks
- Two-phase public lighting networks
- Three-phase public lighting networks
- Low-voltage overhead distribution systems

Cable Construction

1. Phase Conductor

- Material: Aluminium
- Construction: Concentric stranded aluminium conductor
- Conductor designation: RM

2. Supporting Neutral Conductor

- Material: Steel-aluminium
- Function: Mechanical support for the aerial cable assembly

3. Insulation

- Material: PVC (Polyvinyl Chloride)
- Colour: Black

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Main Technical Specifications

Parameter	Description
Product name	TYIR / TYIR 50 OL-AL
Cable type	PVC Bundled Overhead Line Cable
Rated voltage (U_0/U)	0.6/1 kV
Phase conductor	Concentric stranded aluminium
Conductor designation	RM
Supporting neutral conductor	Steel-aluminium
Insulation material	PVC
Insulation colour	Black
Production standards	ST 125-2006; SR HD 626 S1
Application	Low-voltage overhead power distribution

Technical Parameters

Cable construction	Outer diameter	Aluminium cond. weight	Total cable weight
	mm	kg/km	kg/km
TYIR 10 Al+16 Al	12.6	67	130
TYIR 16 Al+25 Al	15.4	107	190
TYIR 2x10 Al	11.7	51	106
TYIR 2x16 Al	13.5	84	155
TYIR 2x25 Al	17.4	131	231
TYIR 35OL-Al+3x35Al	24.1	375	656
TYIR 3x16+25Al	17.3	192	347
TYIR 3x25+16Al	19.8	256	493
TYIR 3x35Al	20.8	279	450
TYIR 4x10Al	14.1	102	211
TYIR 4x16Al	16.3	169	309
TYIR 5x16Al	18.2	208	371
TYIR 50 OL-Al+16 Al	18.8	174	353
TYIR 50 OL-Al+16 Al+16 Al	18.8	216	427
TYIR 50 OL-Al+25 Al	20.8	198	394
TYIR 50 OL-Al+25 Al+25 Al	20.8	263	509
TYIR 50 OL-Al+2x35+35 Al	24.8	418	807
TYIR 50 OL-Al+2x50 Al	23.5	412	726
TYIR 50 OL-Al+2x50 Al+35Al	26.5	474	807
TYIR 50 OL-AL+35Al+35Al	21.8	319	579

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Cable construction	Outer diameter	Aluminium cond. weight	Total cable weight
	mm	kg/km	kg/km
TYIR 50 OL-Al+3x16 Al	19.4	258	502
TYIR 50 OL-Al+3x16 Al+16Al	20.2	300	576
TYIR 50 OL-Al+3x16 Al+2x16Al	25.2	341	650
TYIR 50 OL-Al+3x16 Al+3x16A	25.6	383	725
TYIR 50 OL-Al+3x25 Al	21	329	625
TYIR 50 OL-Al+3x25 Al+16Al	21.2	371	699
TYIR 50 OL-Al+3x25 Al+2x16Al	27	424	885
TYIR 50 OL-Al+3x25 Al+3x16Al	27.5	467	983
TYIR 50 OL-Al+3x35 Al	24.8	412	729
TYIR 50 OL-Al+3x35 Al+16Al	26	454	803
TYIR 50 OL-Al+3x35 Al+2x16Al	33	496	877
TYIR 50 OL-Al+3x35 Al+35Al	34.8	505	875
TYIR 50 OL-Al+3x35 Al+3x16Al	37.8	538	951
TYIR 50 OL-Al+3x35 Al+3x25Al	37.8	609	1075
TYIR 50 OL-Al+3x50 Al	37.8	505	846
TYIR 50 OL-Al+3x50 Al+16Al	37.8	547	921
TYIR 50 OL-Al+3x50 Al+2x16Al	37.8	587	993
TYIR 50 OL-Al+3x50 Al+35Al	38.3	599	996
TYIR 50 OL-Al+3x50 Al+3x16Al	38.3	632	1079
TYIR 50 OL-Al+3x50 Al+3x25Al	40	702	1193
TYIR 50 OL-Al+3x50 Al+2x25Al	42.5	637	1077
TYIR 50 OL-Al+3x50 Al+3x35Al	42.5	785	1296
TYIR 50 OL-Al+3x70 Al	42.5	668	1079
TYIR 50 OL-Al+3x70 Al+16Al	42.5	709	1153
YIR 50 OL-Al+3x70 Al+2x16Al	42.5	751	1227
TYIR 50 OL-Al+3x70 Al+2x25Al	42.5	799	1309
TYIR 50 OL-Al+3x70 Al+35Al	42.5	761	1229
TYIR 50 OL-Al+3x70 Al+3x16Al	42.5	793	1302
TYIR 50 OL-Al+3x70 Al+3x25Al	42.5	864	1425
TYIR 50 OL-Al+3x70 Al+3x35Al	42.5	948	1528
TYIR 50 OL-Al+3x95 Al	43	863	1357
TYIR 50 OL-Al+3x95 Al+2x16Al	44	946	1505
TYIR 50 OL-Al+3x95 Al+3x16Al	44	987	1579
TYIR 50 OL-Al+3x95 Al+2x25Al	43	995	1588
TYIR 50 OL-Al+50 Al	26	257	468
TYIR 50 OL-Al+50 Al+35Al	26	350	618
TYIR 50 OL-Al+35 Al	27	225	429

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Cable construction	Outer diameter	Aluminium cond. weight	Total cable weight
	mm	kg/km	kg/km
TYIR 50 OL-Al+35 Al+16Al	27	268	506
TYIR 50 OL-Al+70 Al	27	311	545

Key Features and Benefits

- **Aluminium phase conductors:** Provide electrical conductivity with a lightweight conductor design.
- **Steel-aluminium supporting neutral:** Provides mechanical support for aerial installation.
- **PVC insulation:** Provides electrical insulation for the phase conductors.
- **Bundled cable construction:** Combines phase conductors and a supporting neutral conductor into an overhead cable assembly.
- **Low-voltage distribution:** Designed for 0.6/1 kV overhead power distribution applications.
- **Flexible network applications:** Suitable for residential service connections and public lighting systems.

Applicable Standards

- ST 125-2006
- SR HD 626 S1

The final standard requirements and applicable editions should be confirmed according to the project specification.

Why Choose QZ Cable?

QZ Cable is a cable and conductor manufacturer with a history dating back to 1969. We supply overhead conductors and power cable solutions for power transmission and distribution projects.

For TYIR / TYIR 50 OL-AL cable requirements, our team can evaluate:

- Required phase conductor cross-section
- Supporting neutral conductor specification
- Cable construction and configuration
- PVC insulation requirements
- Applicable standards
- Required cable length and project delivery conditions

Contact QZ Cable with your technical specifications and quantity requirements for product evaluation and quotation.

Frequently Asked Questions

1. What is the rated voltage of TYIR / TYIR 50 OL-AL cable?

The specified rated voltage is 0.6/1 kV (U_0/U).

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2. What material is used for the phase conductor?

The phase conductor is made of concentrically stranded aluminium wires.

3. What is the function of the steel-aluminium neutral conductor?

It serves as the supporting conductor, providing mechanical support for the overhead cable assembly.

4. What type of insulation is used?

The cable uses black PVC insulation.

5. Where is TYIR cable commonly used?

It is designed for low-voltage overhead distribution, residential service connections and public lighting networks.

6. Which standards apply to this cable?

The supplied product documentation specifies ST 125-2006 and SR HD 626 S1.

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