



Declaration of Conformity No 1/2023

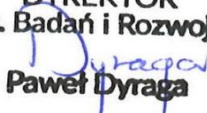
according to EN ISO/IEC 17050-1

1. *Name of producer:* **FABRYKA PRZEWODÓW ENERGETYCZNYCH S.A.**
Address of producer: **ul. Sielecka 1, 42-500 Będzin**
2. *Name of product:* **Shaped copper trolley wire**
MF: 65, 85, 100, 120, 150 mm²
3. *The object of the declaration described above is in conformity with the requirements following documents*
4. *Reference document:* **GOST 2584-86**
5. *Additional information:*

We hereby declare, that products from inspection lot described in point 2 are conformed with documents mentioned in point 4.

Above Declaration of Conformity may be used in tender documents, acceptance documentation. Concerns only deliveries by FPE. S.A. for specific quantity and quality orders.

It is prohibited to use Declaration for other purposes than above mentioned, without FPE. S.A. permission.
6. *Place and date of issue:* **Będzin, 14.03.2023**

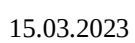
DYREKTOR
ds. Badań i Rozwoju

Paweł Dyraga

(Name and signature of authorized person)



**Technical Guaranteed Data Sheet For
MF-85 mm² according to GOST 2584-86**

Technical data	Values
Manufacturing standard	GOST 2584-86
Type of trolley wire	MF
Chemical compositions of copper in accordance with the standard EN 1977	Cu-OFE
Nominal cross section	85 mm ²
Net weight of 1 km of the trolley wire in subject	755 kg
Max. resistance of trolley wire at temp. 20°C	0,2082 Ω/km
Coefficient of thermal linear expansion	17·10 ⁻⁶ 1/°C
Coefficient of elastic expansion	7,9·10 ⁻⁶ mm ² /N
Tensile strength	367,5 N/mm ²
Elongation at break (A ₂₀₀)	min. 3 %
Weight of trolley wire on drum	max 1500kg



TECHNOLOG

Moore

Piotr Mędrek



Fabryka Przewodów Energetycznych
Spółka Akcyjna
ul. Sielecka 1
42-500 Będzin
KRS 0000069315
SR KATOWICE

Będzin, 14/03/2023

INSPECTION certificate 3.1 according to EN 10204:2006

REPORT No .../2020

Contract No: ---

Order: ---

Material: Shaped copper trolley wire MF-85 mm²

Total mass Net: ---

Drum No: ---

Made acc. to: GOST 2584-86

Results of testing:

Dimension (b)	- 8,06 mm
Dimension (d)	- 5,72 mm
Height (H)	- 10,79 mm
Resistance	- 0,197 ohm/km
Tensile Strength	- 390 N/mm ²
Elongation	- 4,37 %
Reverse bend test	- Positive
Torsional strength test	- Positive
Winding property test	- Positive

Pronouncement:

THE RESULTS OF ALL TESTS ARE SPECIFIED IN THIS TEST REPORT AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE CONTRACT.

LABORATORY ASSISTANT

MANAGER OF QUALITY CONTROL

CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Fabryka Przewodów Energetycznych S.A.
ul. Sielecka 1, PL / 42-500 Będzin



operates a management system in accordance with the requirements of ISO 9001:2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Design and production of overhead conductors, cables, trolley wires, sections, cores, round and shape wires for electrical applications.

Certificate Registration No. 08 100 971716
Audit Report No. PL1849/2021

Valid from 2021-03-25
Valid until 2024-03-24
Initial certification: 1997



Certification Body
at TÜV NORD CERT GmbH

Katowice, 2021-03-16

CERTIFICATE

Management system as per
ISO 14001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Fabryka Przewodów Energetycznych S.A.
ul. Sielecka 1, PL / 42-500 Będzin



operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

**Design, production and sales of overhead conductors,
cables, contact wires, rods, profiles, round and shape wires.**

Certificate Registration No. 08 104 971716
Audit Report No. PL1849/2022

Valid from 2022-05-31
Valid until 2025-05-30
Initial certification 2013



Certification Body
at TÜV NORD CERT GmbH

Katowice, 2022-05-13