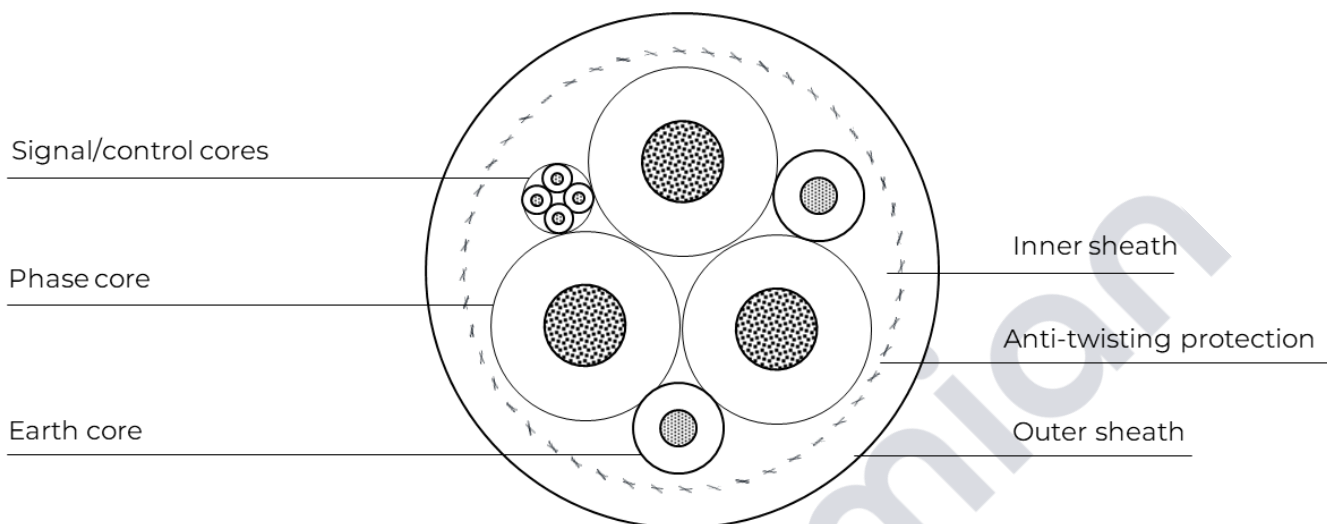


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FE4OTPu
TUNNELFLEX-R/PUR HF 0,6/1 kV 3x120+2G35+1x(4x1,5)
CON PROTEZIONE ANTITORSIONE / WITH ANTITWISTING PROTECTION



Drawing is not to scale and colors are for illustrative purposes only.

Phase cores	Bare copper conductor, flexible cl.5 IEC 60228 XLPE special compound, Brown - Black - Grey
Earth cores	Bare copper conductor, flexible cl.5 IEC 60228 XLPE special compound, Yellow/Green
Control/signal cores	Tinned copper conductor, flexible cl. 6 IEC 60228 Thin thickness made of special technopolymer, Natural with numbers
Inner sheath	HFFR thermoplastic polyurethane compound
Anti-twisting protection	Yes
Outer sheath	HFFR thermoplastic polyurethane compound, abrasion, tear, oil & chemical resistant, yellow
Marking	PALAZZO – TUNNELFLEX-R/PUR HF rated voltage nc x cross section – year – meter

Internal ref: 52200446

0	09.09.2025	Issued for offer	LK	UY
Rev.	Date	Issued for	Prepared	Approved

Compiled by: L. Korek

Approved by: U. Yildirim

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Dimensional parameters

Diameter of phase core (approx.)	19,5 mm
Diameter of earth core (approx.)	9,5 mm
Diameter of signal/control cores group (approx.)	7,5 mm
Outer diameter (nom. / max.)	50 mm / 52 mm
Weight (approx.)	5,2 kg/m

Electrical parameters

Rated Voltage $U_0/U(U_m)$

- phase	0,6/1 (1,2) kV
- signal/control	0,6/1 (1,2) kV

Maximum D.C. resistance at 20°C

- phase	0,161 Ohm/km
- signal/control	13,7 Ohm/km

Short circuit current

(1 sec., starting temp. 80°C, final temp. 200°C)

- phase	15,3 kA (17,1 kA considering starting temp. 90°C, final temp. 250°C)
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Current carrying capacity at 30°C
(conductor temp. 80°C)

- phase	
stretched laying	352 A
monospiral or 1 layer	282 A

Mechanical parameters

Minimum bending radius

Fixed installation 6 x OD

On reels (mobile installation) 10 x OD

Max permissible tensile load 7200 N (up to 20 N/mm² on phase cores only)

Thermal parameters

Fully flexible minimum operating temperature -30°C

Fixed installation minimum operating temperature -40°C

Maximum operating conductor temperature +90°C

Short-circuit conductor temperature +250°C

Fire Performance

Flame retardant IEC 60332-1-2

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ANNEX A

De-rating factors for varying ambient temperatures

°C	15	20	25	30	35	40	45	50	60
k	1,12	1,08	1,04	1,00	0,96	0,91	0,87	0,82	0,71

De-rating factors for multi-cores cables with conductor cross-sections up to 10 mm²

Loaded conductors	5	7	12	18	24	30	36	42	61
k	0,75	0,65	0,53	0,44	0,40	0,37	0,36	0,35	0,30