

## ELSPRO-FLEX® G 05 ELSPRO-FLEX® G 07)

### Special hose line with modified polyurethane sheath and EPR lead insulation

- cable certified by VDE and HAR
- tin-plated CU conductor
- signal color yellow
- type code printed on external sheath



### SPECIAL FEATURES:

- **ULTRA-FINE copper wire (class 6), highly flexible**
- halogen-free
- silicon-free sheath and lead insulation
- withstands high mechanical loads
- resistant to grease, organic and inorganic oils (as per VDE 0472/803A)
- outstanding abrasion resistance
- excellent resistance to tear and high notch tensile strength
- high radiation resistance
- significantly lower chance of "lead rupture"; easy handling, even under rough conditions
- no harmful halogens released (e.g., chlorine/hydrochloric acid)
- easy implementation in paint-related contexts; no coating effect or aggressive deposits
- long service life, fewer production losses COST SAVINGS
- next to no "swelling" of the cable
- implementable under high shear and abrasion loads
- any damage to the sheath remains "localized"
- can be used in various contexts, e.g., with radiation equipment, fusion research facilities, particle accelerators, etc.

Mean Value	Outside Diameter in mm	Max.	Cross-Section in mm <sup>2</sup>	Order No.
7.2		8.1	3 G 0.75	<b>G05 3075</b>
7.8		8.8	4 G 0.75	<b>G05 4075</b>
8.8		9.8	5 G 0.75	<b>G05 5075</b>
7.1		8.0	2 x 1.00	<b>G05 210</b>
7.5		8.5	3 G 1.00	<b>G05 310</b>
7.1		9.3	4 G 1.00	<b>G05 410</b>
8.7		9.8	2 x 1.50	<b>G07 215</b>
9.2		10.4	3 G 1.50	<b>G07 315</b>
11.0		12.4	3 G 2.50	<b>G07 325*</b>
10.2		11.6	4 G 1.50	<b>G07 415</b>
11.1		12.7	5 G 1.50	<b>G07 515*</b>
13.7		15.3	5 G 2.50	<b>G07 525*</b>
16.0		17.9	5 G 4.00	<b>G07 540*</b>
17.9		20.0	5 G 6.00	<b>G07 560*</b>
13.0			7 G 1.50	<b>G07 715</b>

Inside wiring up to 5 leads, color-coded > 5-lead numbering

\* Model with copper class 5

– other models on request / subject to modification and errors –

**REGULATIONS:** DIN VDE 0285-525-2-21

**EXTERIOR SHEATH:**

- modified polyurethane
- color: yellow

**VOLTAGES:**

Nominal voltage:	$U_o/U = 300/500V$	G05
Nominal voltage:	$U_o/U = 450/750V$	G07
Operating voltage:	$U_o/U = 330/570V$	G05
Operating voltage:	$U_o/U = 500/865V$	G07
Alternating current test voltage:	<b>3000V</b>	

**TEMPERATURES:**

during operation (conductor temperature)	+ 90° C
in the case of a short circuit	+ 200° C
lowest working temperature, flexible	- 35° C
lowest working temperature, resting	- 45° C

**BENDING RADII:**

$d \leq 8 \text{ mm} = 2d$
$d 8-12 \text{ mm} = 3d$
$d > 12 \text{ mm} = 4d$

**INSIDE WIRING:**

- ULTRA-FINE-WIRED,  
tin-plated copper conductor (class 6 / DIN/VDE 0295 / IEC 228)
- special EPR insulation in accordance with DIN/VDE 0207-20



Skin contact should be avoided when the cable is used under high-temperature conditions.

For use in areas where

- hot components are touched
- “heavy” sweating occurs, beads of sweat appear
- thermal radiation is present
- there is exposure to open fire  
(e.g., steel production and processing)

please use our INDUSTRIEFLEX® cables (catalog pages 8.1-8.8) or  
ELSPRO-FLEX® THERM-MF cables (catalog pages 8.17) instead!