



(INT+43 1/ NAT 01)
TEL 360 20 - 0 / FAX - 1234
A-1194 VIENNA, P.O. BOX 2

GG - DATA SHEET

-IN DOUBT, THE GERMAN ORIGINAL GOVERNS THIS TRANSLATION-

K 6901

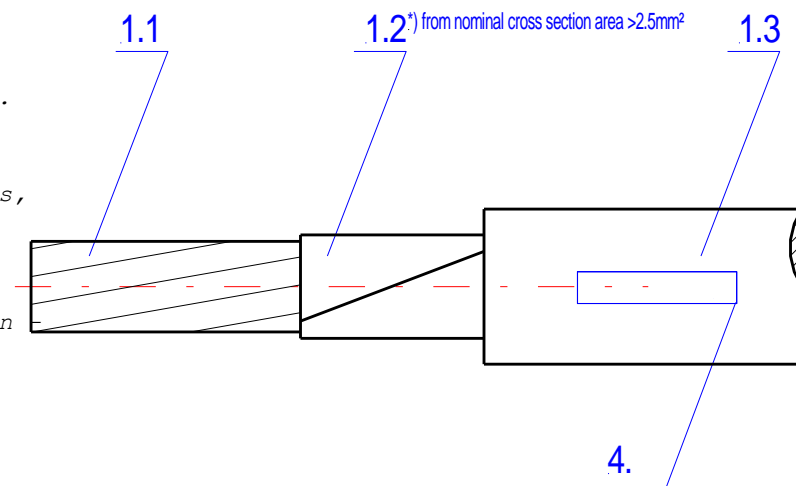
GG-STANDARD

E2

ISSUE

1. DESIGN DATA

- 1.1 CONDUCTOR** : bare copper wires,
conductor construction according to ISO 6722,
material Cu-ETP1-A019-P according to DIN EN 13602,
for single wire- \varnothing to 0.32mm,
material Cu-ETP1-A020-P according to DIN EN 13602,
for single wire - \varnothing over 0,32mm.
- 1.2 PARTING COMPOUND** : PETP-foil (from Nominal cross section area $> 2.5\text{mm}^2$).
- 1.3 INSULATION** : TPE-E (Arnitel UM 551),
Shore D 55 ± 5 according to DIN 53 505,
single- and double coloured with longitudinal stripes,
in all usual colours,
measurements according to ISO 6722-1,
with the exception of adhesive strength of core;
test requirements similar to ISO 6722-1 - in addition
but changed test conditions like :
Insulation compression test at 160°C ,
head aged test at 180°C .
Increased insultation force retention is possible,
poor resistance against hydrolysis.
This insulation material causes higher removal force.



2. CHARACTERISTICS

- 2.1 TEST VOLTAGE (50Hz)** : see table.
- 2.2 OIL RESISTANCE** : according to ISO 6722-1.
- 2.3 FUEL RESISTANCE** : according to ISO 6722-1.
- 2.4 NOMINAL VOLTAGE** : $\leq 600\text{V}$.
- 2.5 OPERATION TEMPERATURE** : -40°C to $+150^\circ\text{C}$ / 3000h,
to $+180^\circ\text{C}$ / 48h.

- 3. IDENTIFICATION** : Manufacturer's name printed on sheath (distance $\leq 200\text{mm}$)
- 4. DELIVERY MAKE-UP** : In containers according to DIN 46 396 or
on reels, with regular-length see table.

P o l y f l e x

Table TPE-E insulated cables with reduced wall thickness and increased heat resistance.

Typ FLR13Y , , , /600V

GG-PART No.

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DESIGNED

STRASSER

CHECKED

HOCHLEITHNER

DATE

26.02.2015

EXTERNAL SPECIFICATION

-

PAGE

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STRANDED WIRES, WITH REDUCED TPE-E INSULATION THICKNESS AND SYMMETRICAL CONDUCTOR-CONSTRUCTION

NOMINAL CROSS SECTIONAL AREA [mm ²]	INDIVIDUAL WIRES		CONDUCTOR		COMPLETED WIRE					DELIVERY		GG-Part-No
	NUMBERS	MAX. DIA METER [mm]	MAX. DIA METER [mm]	MAX. RESISTANCE at 20° [Ω/km]	INSULATION THICKNESS nom. min. [mm] [mm]	MAX. OUTSIDE CABLE DIAMET./TOL. [mm] [mm]	TEST VOLTAGE [KVe _{eff}]	WEIGHT (appr.) [g/m]	PACKAGE	REGULAR LENGHT [km]		
0,14	7	0,16	0,5	145	0,25 0,20	1,15 / -0,1	6	2,2	NPS	25,0	-	
0,35	7	0,27	0,9	52,0	0,25 0,20	1,3 / -0,1	6	4,3	NPS	15,0	124 530	
0,5	19	0,19	1,1	37,1	0,30 0,22	1,6 / -0,2	8	6,3	NPS	12,0	-	
0,75	19	0,24	1,3	24,7	0,30 0,24	1,9 / -0,2	8	8,8	NPS	9,0	-	
1,0	19	0,27	1,5	18,5	0,30 0,24	2,1 / -0,2	8	11	NPS	7,5	-	
1,5	19	0,33	1,8	12,7	0,30 0,24	2,4 / -0,2	8	16	NPS	5,5	-	
2,0	19	0,38	2,0	9,42	0,35 0,28	2,7 / -0,3	8	20	NPS	4,2	-	
2,5	19	0,41	2,2	7,6	0,35 0,28	3,0 / -0,3	8	27	NPS	3,2	-	

P o l y f l e x

Table TPE-E insulated cables with reduced wall thickness and increased heat resistance.

Typ FLR13Y . . . /600V

notation example : FLR13Y 0,35-A /600V

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STRANDED WIRES, WITH REDUCED TPE-E INSULATION THICKNESS AND UNSYMMETRICAL CONDUCTOR-CONSTRUCTION

NOMINAL CROSS SECTIONAL AREA [mm ²]	INDIVIDUAL WIRES		CONDUCTOR		COMPLETED WIRE					DELIVERY		GG-Part-No
	NUMBERS	MAX. DIA METER [mm]	MAX. DIA METER [mm]	MAX. RESISTANCE at 20° [Ω/km]	INSULATION THICKNESS nom. min. [mm] [mm]	MAX. OUTSIDE CABLE DIAMET./TOL. [mm] [mm]	TEST VOLTAGE [KVe _{eff}]	WEIGHT (appr.) [g/m]	PACKAGE	REGULAR LENGHT [km]		
0,50	16	0,21	1,1	37,1	0,30 0,22	1,6 / -0,2	8	6,0	NPS	12,0	-	
0,75	24	0,21	1,3	24,7	0,30 0,24	1,9 / -0,2	8	8,6	NPS	9,0	-	
1,0	32	0,21	1,5	18,5	0,30 0,24	2,1 / -0,2	8	11	NPS	7,5	-	
2,5	50	0,26	2,2	7,60	0,35 0,28	3,0 / -0,3	8	26	NPS	3,2	-	
4	56	0,31	2,8	4,70	0,40 0,32	3,7 / -0,3	8	42	NPS	2,2	-	
6	84	0,31	3,4	3,10	0,40 0,32	4,3 / -0,3	8	59	NPS	1,6	-	
10	80	0,41	4,5	1,82	0,70 0,53*)	6,0 / -0,5	8	106	TH 500	1,5	-	
16	126	0,41	5,8**)	1,16	0,90 0,71*)	7,5 / -0,5	8	170	TH 500	1,0	-	

*) value larger than ISO 6722-1 (min. 0.48mm).

***) value smaller than ISO 6722-1 (max. 6.0mm).

notation example : FLR13Y 2.5-B

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Table TPE-E insulated cables with reduced wall thickness and increased heat resistance.

Typ FLR13Y ... /600V

GG-PART No.

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