

24 x 1 LSF.  
221382.

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(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 3425**  
GG-STANDARD

**E4**  
ISSUE

- 1. AUFGABE**
- 1.1 LEITER** : Bare copper wires, material and conductor construction according to CENELEC HD 383, fine strand, class 5.
- 1.2 INSULATION** : FRNC, halogen free
- colour : bk with number marking according to CENELEC HD 186/S2, Pt. 6,
- whereby the gnye core has no number marking:
- 1.3 ARRANGEMENT** : Acc. to EN 50214, the cores are summarized in groups; each group includes a rip cord.
- 1.4 PARTING COMPOUND** : GG-special parting compound between cores and sheath.
- 1.5 SHEATH** : FRNC, colour : bk, measurement according to EN 50214.

**2. CHARACTERISTICS**

- 2.1 NOMINAL VOLTAGE (50 Hz)** : 300/500  $V_{eff}$ .
- 2.2 TEST VOLTAGE (50 Hz)** : 2  $kV_{eff}$  / 15 minutes according to CENELEC HD 21.1/S2, table 3, Pt. 2.
- 2.3 OPERATION TEMPERATURE** : -20°C to +70°C
- 2.4 FLAME RESISTANCE** : acc. to IEC 60332-1-2.
- 2.5 HALOGENFREE** : acc. to IEC 60754-1.
- 2.6 CORROSIVENESS OF COMBUSTION GASES** : acc. to IEC 60754-2.
- 2.7 SMOKE DENSITY** : acc. to IEC 61034-1/-2.

**3. BENDING RADIUS**

- : min. 10-x thickness of flat cable according to CENELEC HD 516/S1, table 6.2

**4. TEST OF BENDING**

- : min. 30.000 bending cycles according to EN 50214
- : max. 45m (max. lift height 80m).

**5. FREE HANGING LENGTH**

- : max. 6.3 m/s according to EN 50214.

**6. SPEED OF LIFT**

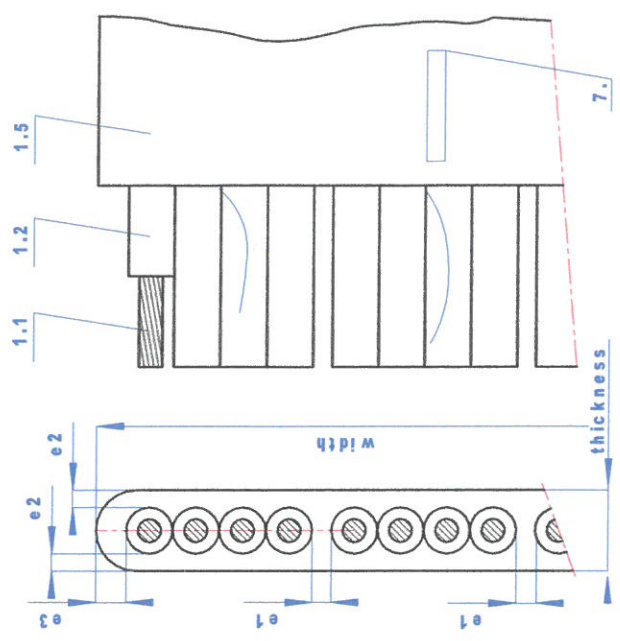
- : Imprint "GERAUER & GRILLER - FR-LSOH - type (name, number of cores, nominal cross section area) - production date - metermarking" on sheath (distance  $\leq$  500mm).

**7. IDENTIFICATION**

- : On drums with regular-length see table.

**8. DELIVERY MAKE-UP**

- : On drums with regular-length see table.



**P o l y f l e x**

Table flexible FRNC-flat-cables without strain bearing member 300/500V.

**Type LEAFL-NYNY-JZ ...**

EXTERNAL SPECIFICATION similar to EN 50214

GG-PART No.	DESIGNED	CHECKED	DATE	EXTERNAL SPECIFICATION	PAGE
-	STRASSER	PALMSTEINER	25.03.2013	similar to EN 50214	1 of 4



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## FRNC-CORE ACCORDING TO EN 50214

NOMINAL-CROSS-SECTION AREA [mm <sup>2</sup> ]	SINGLE WIRE		CONDUCTOR		FRNC - CORE			
	NUMBER	MAX. DIA-METER [mm]	MAX. DIA-METER [mm]	MAX. RESISTANCE at 20 °C [Ω/km]	WALL-THICKNESS OF INSULATION nom. min. [mm]	MAX. DIAMETER /-TOLERANCE [mm]	MIN. RESISTANCE-OF INSULATION at 70 °C [MΩ.km]	TEST VOLTAGE at 50 Hz [kV <sub>eff</sub> /5 minutes]
0.75	24	0.21	1.3	26.0	0.60 0.44	2.5 / -0.2	0.011	1.5
1.0	32	0.21	1.4	19.5	0.60 0.44	2.6 / -0.2	0.010	1.5

### Polyflex

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PAGE 2 of 4

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FLEXIBLE FRNC-FLAT CABLE WITHOUT STRAIN BEARING MEMBER AND CROSS SECTION OF CORE 0.75mm <sup>2</sup>									
total [-]	NUMBER of CORES each group [-]	WALL-THICKNESS of SHEATH		CABLE-DIMENSIONS (approx.) thickness x width [mm]	WEIGHT (app.) [g/m]	DELIVERY- MAKE-UP [drum]	REGULAR- LENGTH [km]	GG-PART No. with gnye Single-core yes / no	
		e1 nom./min. [mm]	e2 nom./min. [mm]						e3 nom./min. [mm]
6	3 + 3	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	130	EW-8	1.0	62 373	
12	4 + 4 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	235	EW-10	1.0	49 706	
18	4 + 5 + 5 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	352	EW-10	1.0	49 708	
20	4 + 4 + 4 + 4 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	394	EW-12	1.0	49 709	
24	4 + 4 + 4 + 4 + 4 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	465	EW-12	1.0	49 710	

Notation example with gnye core : LEAFL-NYNY-JZ 12X0.75.

Position of gnye core :

At 6-core type the gnye core is lying between core No. 2 and core No. 3.

At 12- and 18-core type the gnye core is lying between core No. 7 and core No. 8.

At 24-core type the gnye core is lying between core No. 13 and core No. 14.

## P o l y f l e x

Table flexible FRNC-flat-cables without strain bearing member 300/500V.

**Type LEAFL-NYNY-JZ . . .**

GG-PART No. -	DESIGNED STRASSER	CHECKED PALMSTEINER	DATE 25.03.2013	EXTERNAL SPECIFICATION similar to EN 50214	PAGE 3 of 4
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## FLEXIBLE FRNC-FLAT CABLE WITHOUT STRAIN BEARING MEMBER AND CROSS SECTION OF CORE 1.0mm<sup>2</sup>

total [-]	NUMBER of CORES each group [-]	WALL-THICKNESS of SHEATH			CABLE-DIMENSIONS (approx.) thickness x width [mm]	WEIGHT (app.) [g/m]	DELIVERY- MAKE-UP [drum]	REGULAR- LENGTH [km]	GG-PART No. with gnye Single-core yes / no
		e1 nom./min. [mm]	e2 nom./min. [mm]	e3 nom./min. [mm]					
6	3 + 3	1.0 / 0.6	0.9 / 0.6	1.5 / 1.0	4.3 x 19.0	146	EW-8	1.0	59 173 --
12	4 + 4 + 4	1.0 / 0.6	0.9 / 0.67	1.5 / 1.0	4.3 x 35.0	270	EW-10	1.0	59 179 --
18	4 + 5 + 5 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	4.3 x 51.0	400	EW-12	1.0	59 185 --
20	4 + 4 + 4 + 4 + 4	1.0 / 0.6	0.9 / 0.52	1.5 / 1.0	4.3 x 57.0	444	EW-12	1.0	60 238 --
24	4 + 4 + 4 + 4 + 4 + 4	1.0 / 0.6	0.9 / 0.67	1.5 / 1.0	4.3 x 68.0	532	EW-12	1.0	59 186 --

Notation example with gnye core : LEAFL-NYNY-JZ 12X1.0.

Position of gnye core :

At 6-core type the gnye core is lying between core No. 2 and core No. 3.

At 12- and 18-core type the gnye core is lying between core No. 7 and core No. 8.

At 24-core type the gnye core is lying between core No. 13 and core No. 14.

### P o l y f i e x

Table flexible FRNC-flat-cables without strain bearing member 300/500V.

### Type LEAFL-NYNY-JZ ...

EXTERNAL SPECIFICATION

similar to EN 50214

GG-PART No.

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25.03.2013

PALMSTEINER

STRASSER