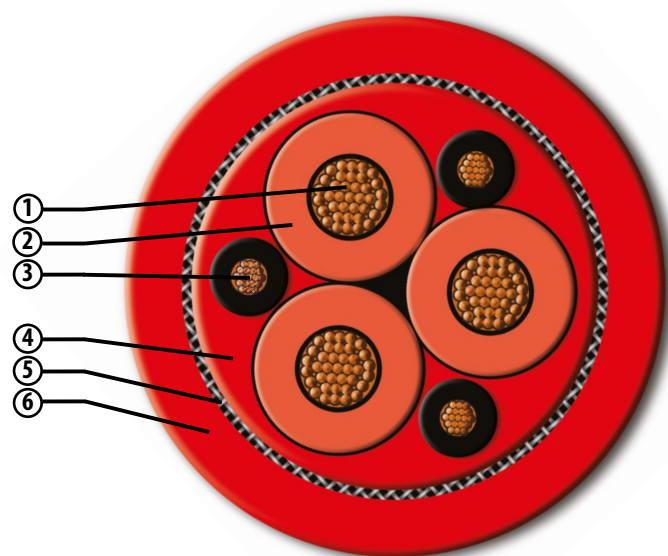


## TRATOSFLEX-ESDB® - High speed, high pull & torsion resistance

High speed, high pull & torsion resistance for reeling end and centre feeds application.

### FEATURES AND PERFORMANCES



#### CONSTRUCTION

- 1) Conductor more flexible than CI. 5 VDE 0295
- 2) Semiconducting layer + Insulation Tratosflex-ESDB-I®, equivalent to or better than HEPR + Semiconducting layer\*
- 3) Ground conductor with semiconducting layer
- 4) Inner sheath red colour elastomeric compound Tratos-JBA-IS®
- 5) Antitorsional protection
- 6) Outer sheath red colour elastomeric compound Tratosflex-JBA-OS®, better than 5GM5 quality

#### TECHNICAL SPECIFICATIONS

• Rated Voltage	3,6/6 kV	6/10 kV	8,7/15 kV	12/20 kV
• Max Voltage AC	4,2/7,2 kV	6,9/12 kV	10,4/18 kV	13,9/24 kV
• AC Voltage Test	11 kV	17 kV	24 kV	29 kV



Working Ambient Temperature:	TRATOSFLEX-ESDB	Type K
Fixed installation	-40 °C to +80 °C	-60 °C to +60 °C
In operation	-30 °C to +80 °C	-

Travel Condition:				
Main application	Monospiral Reel End feed	Monospiral Reel Centre feed	Random	-
Suitable m/min Max	-	-	-	Tender System
Operating max speed (mt/min)	<b>300</b>	<b>200</b>	60	60

\*Very special semiconducting compound which acts as a screen: the resistance between the ground conductor and semiconductive external layer of phase conductor must be maximum 500 Ohm measured according to VDE 0472 part 512

**TRATOSFLEX-ESDB - High speed, high pull & torsion resistance**

Part Number	Nominal Cross Section	Nominal Conductor Diameter		Maximum Conductor DC Resistance at 20 °C		Maximum Permanent Tensile Load	Maximum Dynamical Tensile Load During Acceleration Process	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Cable Weight
	mm <sup>2</sup>	mm		Ω/Km		N	N	mm	mm	Kg/m
<b>3,6/6 kV (N)TSCGEWÖU</b>										
FDC325	3x25+3x10	6,5/4,2		0,795/0,795*		3000	<b>4125</b>	42,5	45,5	2,560
FDC335	3x35+3x10	7,8/4,2		0,565/0,795*		3000	<b>4125</b>	44,2	47,2	3,050
FDC350	3x50+3x10	9,5/4,2		0,393/0,795*		3600	<b>5250</b>	47,3	50,2	3,520
FDC370	3x70+3x16	11,4/5,4		0,277/0,565*		5000	<b>7500</b>	50,0	54,2	4,950
FDC395	3x95+3x16	13,0/5,4		0,210/0,393*		6500	<b>8900</b>	54,0	58,0	5,780
FDC30A	3x120+3x25	14,7/6,5		0,164/0,277*		7500	<b>10800</b>	59,0	63,0	6,800
FDC30B	3x150+3x25	16,5/6,5		0,132/0,277*		9000	<b>12000</b>	64,0	68,0	8,200
		(1)	(2)	(1)	(2)					
<b>6/10 kV (N)TSCGEWÖU</b>										
FDD325	3x25+3x10	6,5/4,2		0,795/0,795*		3000	<b>4125</b>	42,5	45,5	2,560
FDD335	3x35+3x10	7,8/4,2		0,565/0,795*		3000	<b>4125</b>	44,2	47,2	3,050
FDD350	3x50+3x10	9,5/4,2		0,393/0,795*		3600	<b>5250</b>	46,2	49,2	3,520
FDD370	3x70+3x16	11,4/5,4		0,277/0,565*		5000	<b>7500</b>	50,0	54,2	4,700
FDD395	3x95+3x16	13,0/5,4		0,210/0,393*		6500	<b>8900</b>	54,5	58,5	5,880
FDD30A	3x120+3x25	14,7/6,5		0,164/0,277*		7500	<b>10800</b>	59,0	63,0	6,950
FDD30B	3x150+3x25	16,5/6,5		0,132/0,277*		9000	<b>12000</b>	64,0	68,0	8,200
<b>8,7/15 kV (N)TSCGEWÖU</b>										
FDE325	3x25+3x10	6,5/4,2		0,795/0,795*		3000	<b>4125</b>	43,5	47,0	2,750
FDE335	3x35+3x10	7,8/4,2		0,565/0,795*		3000	<b>4125</b>	47,1	50,1	3,250
FDE350	3x50+3x10	9,5/4,2		0,393/0,795*		3600	<b>5250</b>	50,0	54,0	3,890
FDE370	3x70+3x16	11,4/5,4		0,277/0,565*		5000	<b>7500</b>	54,0	58,0	5,100
FDE395	3x95+3x16	13,0/5,4		0,210/0,393*		6500	<b>8900</b>	59,1	63,1	6,270
FDE30A	3x120+3x25	14,7/6,5		0,164/0,277*		7500	<b>10800</b>	64,5	68,5	7,700
FDE30B	3x150+3x25	16,5/6,5		0,132/0,277*		9000	<b>12000</b>	69,5	73,5	8,600
<b>12/20 kV (N)TSCGEWÖU</b>										
FDF325	3x25+3x10	6,5/4,2		0,795/0,795*		3000	<b>4125</b>	48,0	51,0	3,060
FDF335	3x35+3x10	7,8/4,2		0,565/0,795*		3000	<b>4125</b>	50,2	54,2	3,590
FDF350	3x50+3x10	9,5/4,2		0,393/0,795*		3600	<b>5250</b>	55,4	59,4	4,470
FDF370	3x70+3x16	11,4/5,4		0,277/0,565*		5000	<b>7500</b>	59,0	63,0	5,490
FDF395	3x95+3x16	13,0/5,4		0,210/0,393*		6500	<b>8900</b>	63,6	67,6	6,900
FDF30A	3x120+3x25	14,7/6,5		0,164/0,277*		7500	<b>10800</b>	69,0	73,0	8,150
FDFE30B	3x150+3x25	16,5/6,5		0,132/0,277*		9000	<b>12000</b>	73,0	77,0	9,150

(1) = Phase conductor  
(2) = Protective conductors

Special dimensions produced upon request

\* Value of three conductors in parallel connection



**Tratos-JBA® compound**

TRATOSFLEX-ESDB® is made with award winning Tratos-JBA® compound. Tratos UK Ltd, has won a Queen’s Award for Enterprise - Innovation for its technologically advanced Tratos-JBA® compound. Tratos’ new compound increases the safety of cable, its resistance to the most invasive and corrosive elements in the environment and its performance.

