



FLEXIDRUM® R 503



ELETTROTEK KABEL® FLEXIDRUM® R 503
cRUUS AWM style 10492/21223 80° 600, 1000 V
AWM II A/B 80°C 1000 V FTI



Construction:

CONDUCTOR:	FLEXIBLE RED COPPER CONDUCTOR CL. 6, ACC TO IEC 60228, DIN VDE 0295
INSULATION:	GAAL THERM® 585
CORES COLOR:	CONSTRUCTION IN LAYER/S (EG 4g, 12g, 30g): BLACK CORES WITH CONSECUTIVE NUMBERS ACC. TO EN 50334 + GREEN-YELLOW CONSTRUCTION 3+3 (EG 3 x 25+3 g 4): 3 BLACK CONDUCTORS NUMBERED + 3 GREEN-YELLOW CONDUCTORS DIVIDED IN 3 INTERSTICES CONSTRUCTION IN PAIRS (EG 6 x (2 x 1)C): BLACK CORES WITH CONSECUTIVE NUMBERS ACC. TO EN 50334
CENTRAL UNIT:	CORE ELEMENT (IF NECESSARY)
STRANDING:	CONSTRUCTION IN LAYER/S (EG 4g, 12g, 30g): IN LAYERS WITH SPECIAL YARNS BETWEEN CORES + PLASTIC TAPE BETWEEN LAYERS CONSTRUCTION 3+3 (EG 3 x 25+3 g 4): PHASE UNITS LAID UP WITH EARTH-CONDUCTORS IN INTERSTICES, WITH SPECIAL YARNS BETWEEN PHASES + FILLERS (IF NECESSARY) CONSTRUCTION IN PAIRS (EG 6 x (2 x 1)C): CORES TWISTED IN PAIRS + PLASTIC FOIL / TINNED COPPER BRAID / PLASTIC FOIL / GAAL THERM® 585 SHEATH, PAIRS IN LAYERS AROUND CENTRAL UNIT + FILLER (IF NECESSARY)
WRAPPING:	NON-WOVEN TAPE OR PLASTIC TAPE
INNER SHEATH:	PUR COMPOUND
SUPPORTING SCREEN:	ANTI-TWISTING PROTECTION OF TEXTILE BRAID
OUTER SHEATH:	BLACK (SIMILAR TO RAL 9005), PUR COMPOUND

Resistance:



SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO:
DIN VDE 0482 PART 265-2-1
EN 50265-2-1
IEC 60332-1-2
UL-VW-1, CSA FT-1



HALOGEN-FREE ACC. TO:
DIN VDE 0482 PART 267,
EN 50267-2-1,
IEC 60754-1



OIL RESISTANCE ACC. TO:
DIN VDE 0473 PART 811-2-1
IEC EN 60811-2-1

Features:

- UV RESISTANCE: VERY GOOD
- CHEMICAL RESISTANCE: GOOD
- SMALL OUTER DIAMETER
- REDUCED CABLE WEIGHT
- HIGH WINDING AND UNWINDING STRENGTH
- cRUUS AWM STYLE 10492/21223 80°C 600, 1000 V
AWM II A/B 80°C 1000 V FTI
- OR
- cRUUS AWM STYLE 21897 80°C
AWM II A/B 80°C, 0,6/1 KV, FTI
- FOR SPEEDS AND MINIMUM BENDING RADIUS
SEE PAGES FROM 1 TO 4 OF CATALOGUE
- ROHS AND CE APPROVAL



Applications:

FLEXIDRUM® R 503 IS USED ON HEAVY APPLIANCES LIKE MOTOR CABLE REEL HOISTS, TRANSPORT SYSTEMS, MOVABLE MOTORS AND FARM VEHICLES WITH HIGH MECHANICAL STRESS

Technical data:

NOMINAL VOLTAGE:	U ₀ /U 0,6/1 KV
NOMINAL VOLTAGE UL:	1000 V
TEST VOLTAGE:	4 KV
TEMPERATURE RANGE DIN VDE:	
FIXED LAYING:	-50°C UP TO +90°C
FLEXIBLE INSTALLATION:	-40°C UP TO +90°C
TEMPERATURE RANGE UL:	
FIXED LAYING:	UP TO +80°C
FLEXIBLE INSTALLATION:	UP TO +80°C
MAX. TEMPERATURE ON CONDUCTOR:	+ 90°C
MAX. TEMPERATURE IN SHORT CIRCUIT:	+ 250 °C
MIN. BENDING RADIUS:	
FIXED LAYING:	5 x D
FLEXIBLE LAYING:	7,5 x D
TENSILE STRENGTH:	
STATIC	50 N/mm ²
DYNAMIC:	20 N/mm ²
MAX. TORSION:	± 25°/1mt.
MAX SPEED (MAIN APPLICATION):	180 m/min

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ELETTROTEK KABEL® FLEXIDRUM® R 503
cULus AWM style 10492/21223 80° 600, 1000 V
AWM II A/B 80°C 1000 V FT1



Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.*)
01120G70041A16	4 g 1,5	9,4	57,6	135	2000	16
01120G70051A16	5 g 1,5	10,1	72	160	2000	16
01120G70071A16	7 g 1,5	11,1	101	210	2500	16
01120G70121A16	12 g 1,5	13,6	172,8	310	3000	16
01120G70181A16	18 g 1,5	15,7	259,2	420	3500	16
01120G70241A16	24 g 1,5	18,8	345	560	4000	16
01120G70361A16	36 g 1,5	25,4	518,4	992	-	16
01120G70041A14	4 g 2,5	11	96	195	2500	14
01120G70051A14	5 g 2,5	12	120	235	2500	14
01120G70071A14	7 g 2,5	13,8	168	305	3000	14
01120G70121A14	12 g 2,5	17	288	460	3500	14
01120G70181A14	18 g 2,5	20	432	695	4000	14
01120G70241A14	24 g 2,5	23,2	576	925	4500	14
01120G70301A14	30 g 2,5	23,7	720	1250	5000	14
01120G70361A14	36 g 2,5	27,8	864	1410	5700	14
01120G70041A12	4 g 4	12,5	153,6	275	2500	12
01120G70041A10	4 g 6	14,9	230,4	390	3000	10
01120G70041A08	4 g 10	18	384	570	4000	8
01120G70041A06	4 g 16	21,5	614,4	915	4500	6
01120G70041A04	4 g 25	25,5	960	1360	5500	4
01120G70041A02	4 g 35	29,2	1344	1865	7000	2
01120G70041A01	4 g 50	34,5	1920	2650	9000	1
01120G70051A12	5 g 4	14,3	192	365	-	12
01120G70051A08	5 g 10	19,6	480	730	4000	8
01120G70051A06	5 g 16	23,6	768	1110	5500	6
01120G70051A04	5 g 25	28,3	1200	1685	6000	4
01120G70081A12	8 g 4	18,4	307,2	-	-	4
01120G70121A12	12 g 4	19,5	367,2	630	-	4
01120G70201A12	20 g 4	24,8	768	-	-	4
01120G70241A12	24 g 4	27,8	921,6	1442,5	-	4
01120G70301A12	30 g 4	31,2	1152	1840	-	4
01120G70037A04	3 x 25+3 g 6	23,2	892,9	1105	5000	4
01120G70037A02	3 x 35+3 g 6	26,5	1180	1525	6000	2
01120G70037A01	3 x 50+3 g 10	31	1728	2155	7000	1
01120G70037A2C	3 x 70+3 g 16	36,4	2477	3100	8000	2/0
01121G70062A18	6 x (2 x 1)C	20,1	204	455	2500	18
01120G70031900	30 g 2,5+(4 x 1,5)C	28,4	799	1395	10000	14
01120G72049904	4 g 70+12 g 62,5/125	39,6	2688	3612	-	2/0

Other dimensions and colors available on request.

FLEXIDRUM® FIBER 770

ELETTROTEK KABEL® FLEXIDRUM® FIBER 770



Construction:

OPTICAL FIBERS:	CORE Ø: 50 µm, 62,5 µm, 9 µm CLADDING: 125 µm COATING: 250 µm STANDARD TYPE: 62,5/125 (OTHERS ON REQUEST)
TUBES:	THERMOPLASTIC COMPOUND
CENTRAL UNIT:	HIGH-TECHYARNS
STRANDING:	FIBER-OPTICS AROUND CENTRAL UNIT 6-12-18 FIBER-OPTICS LAYING IN 6 TUBES (1,2 OR 3 FIBERS PER TUBE)
SUPPORTING SCREEN:	ANTI-TWISTING PROTECTION OF SYNTHETIC YARNS
OUTER SHEATH:	BLACK (SIMILAR TO RAL 9005), RUBBER PCP TYPE 5GM2

Resistance:



SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO:
DIN VDE 0482 PART 265-2-1
EN 50265-2-1
IEC 60332-1-2



OIL RESISTANCE ACC. TO:
DIN VDE 0473 PART 811-2-1
IEC EN 60811-2-1

Technical data:

TEMPERATURE RANGE:	
FIXED LAYING:	-40°C UP TO +80°C
FLEXIBLE INSTALLATION:	-30°C UP TO +60°C
MIN. BENDING RADIUS:	15 x D
MAX TORSION:	± 120°/M
TENSILE STRENGTH:	1200 N
MAX TRANSVERSE PRESSURE:	300 N/cm
MAX SPEED (MAIN APPLICATION):	240 m/min

Features:

- UV RESISTANT
- OIL AND CHEMICAL RESISTANCE
- FOR SPEED AND MINIMUM BENDING RADIUS
SEE PAGES FROM 1 TO 4 OF CATALOGUE
- ROHS APPROVAL



Part no.	No. of fibers	No. of fibers x tube	Outer-Ø ca. mm ± 10%	Cable weight approx. kg/km	Tensile strength N
0109007F061F62	6 g 62,5/125 MICRON	1	14	230	1200
0109007F061F52	6 g 50/125 MICRON	1	14	230	1200
0109007F06AF09	6 e 9/125 MICRON	1	14	230	1200
0109007F121F62	12 g 62,5/125 MICRON	2	14	230	1200
0109007F121F52	12 g 50/125 MICRON	2	14	230	1200
0109007F12AF09	12 e 9/125 MICRON	2	14	230	1200
0109007F181F62	18 g 62,5/125 MICRON	3	14	230	1200
0109007F181F52	18 g 50/125 MICRON	3	14	230	1200
0109007F18AF09	18 e 9/125 MICRON	3	14	230	1200

Other dimensions and colors available on request.