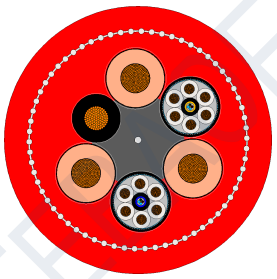
(N)TSCGEWOEU-SR FO

Flexible medium voltage reeling cable with fiber optic wires and screened control cores

Voltage rating: 6/10 kV.



APPLICATION

Flexible medium voltage reeling cable with fiber optic wires and screened control cores, for deflection and reeling applications.

CONSTRUCTION

Component	Description
Standard	DIN VDE 0250-813 (with ref. to)
Conductor material	Copper, bare
Conductor construction	Class 5 = flexible
Insulation	Basic EPR
Electrical field control	Inner and outer semiconducting rubber layer
Arrangement of protective conductors	Arrange in the outer interstice
Material inner sheath	Rubber 5GM5
Torsion protection	Synthetic braid
Sheathing material	Rubber 5GM5
Colour of outer sheath	Red
Flame-retardant	VDE 0482-332-1-2 / IEC 60332-1-2
UV-resistant	Yes
Oil-resistant	EN 60811-404

CHARACTERISTICS

Parameter	Value
Voltage rating (Uo/U)	6/10 kV
Maximum voltage in 3-phase systems	12 kV
Test voltage	17 kV
Maximum conductor temperature	90 deg C
Maximum short-circuit temperature	250 deg C

OPERATING CHARACTERISTICS

Parameter	Value
Minimum bending radius	Acc. to VDE 0298-3; reeling application: 12 x OD; on deflection pulleys: 15 x OD
Minimum distance with S-type directional changes	20 x OD
Operating speed	60 m/min
Permitted outer cable temperature, fixed	-40 deg C to +90 deg C
Permitted outer cable temperature, moved	-30 deg C to +90 deg C
Current rating	Acc. to VDE 0298-4 table 15

STANDARDS

Parameter	Value
Cable standard	DIN VDE 0250-813 (with ref. to)
Flame-retardant	VDE 0482-332-1-2 / IEC 60332-1-2

TECHNICAL DATA

DIMENSIONS

6/10 kV								
Cable construction	Rl (Ohm/km)	Ibl (A)	Ik (kA)	OD (mm)	Fzp (N)	Fzd (N)	Cu (kg)	G (kg/1000 m)
03x25 + 2x25/2 + 12E9/125	0.78	131	3.6	47	1125	1500	960	2888
03x25 + 2x25/2 + 12G50/125	0.78	131	3.6	47	1125	1500	960	2888
03x25 + 2x25/2 + 12G62.5/125	0.78	131	3.6	47	1125	1500	960	2888
03x25 + 1x25 + 2x(9x2.5)C + 12E9/125 + 12G50/125	0.78	131	3.6	61	1125	1500	1577	4680
03x35 + 1x16 + 2x(9x2.5)C + 12E9/125 + 12G50/125	0.554	162	5	62	1575	2100	1794	5175
03X35 + 1X25 + 2X(6X2.5)C + 12E9/125	0.554	162	5	59	1575	2100	1473	4756
03X35 + 1X25 + 2X(6X2.5)C + 12G50/125	0.554	162	5	59	1575	2100	1473	4756
03X35 + 1X25 + 2X(6X2.5)C + 12G62.5/125	0.554	162	5	59	1575	2100	1473	4756
03x50 + 1x50 + 2x(9x2.5)C + 12E9/125 + 12G50/125	0.386	202	7.2	64	2250	3000	2537	5861
03x50 + 1x25 + (8x1.5)C + 2x12E9/125	0.386	202	7.2	61	2250	3000	1873	4971
03x50 + 1x25 + (8x1.5)C + 2x12G50/125	0.386	202	7.2	61	2250	3000	1873	4971
03x50 + 1x25 + (8x1.5)C + 2x12G62.5/125	0.386	202	7.2	.61	2250	3000	1873	4971
03X70 + 2X35/2 + 12E9/125	0.272	250	14.2	54	3150	4200	2352	4610
03X70 + 2X35/2 + 12G50/125	0.272	250	14.2	54	3150	4200	2352	4610
03X70 + 1X35 + (4X2.5)C + 2X12E9/125	0.272	250	14.2	65	3150	4200	2533	6056
03X70 + 1X35 + (4X2.5)C + 2X12G50/125	0.272	250	14.2	65	3150	4200	2533	6056
03X70 + 1X35 + (4X2.5)C + 2X12G62.5/125	0.272	250	14.2	65	3150	4200	2533	6056
03X70 + 2X35/2 + 12G62.5/125	0.272	250	14.2	54	3150	4200	2352	4610
03x95 + 2x50/2 + 12E9/125	0.206	301	13.6	59	4275	5700	3216	5755
03x95 + 2x50/2 + 12G50/125	0.206	301	13.6	59	4275	5700	3216	5755

TECHNICAL DATA CONTINUED

DIMENSIONS CONTINUED

6/10 kV								
Cable construction	Rl (Ohm/km)	Ibl (A)	Ik (kA)	OD (mm)	Fzp (N)	Fzd (N)	Cu (kg)	G (kg/1000 m)
03x95 + 2x50/2 + 12G62.5/125	0.206	301	13.6	59	4275	5700	3216	5755
03X95 + 1X50 + (4X2.5)C + 2X12E9/125	0.206	301	13.6	69	4275	5700	3397	7115
03X95 + 1X50 + (4X2.5)C + 2X12G50/125	0.206	301	13.6	69	4275	5700	3397	7115
03X95 + 1X50 + (4X2.5)C + 2X12G62.5/125	0.206	301	13.6	69	4275	5700	3397	7115
03x120 + 1x50 + 2x(6x1.5)C + 12E9/125	0.161	352	17.2	68	5400	7200	4271	7742
03x120 + 1x50 + 2x(6x1.5)C + 12G50/125	0.161	352	17.2	68	5400	7200	4271	7742
03x120 + 1x50 + 2x(6x1.5)C + 12G62.5/125	0.161	352	17.2	68	5400	7200	4271	7742
03X120 + 1X70 + (4X2.5)C + 2X12E9/125	0.161	352	17.2	71	5400	7200	4309	8115
03X120 + 1X70 + (4X2.5)C + 2X12G50/125	0.161	352	17.2	71	5400	7200	4309	8115
03X120 + 1X70 + (4X2.5)C + 2X12G62.5/125	0.161	352	17.2	71	5400	7200	4309	8115
- 03X120 + 2X70/2 + 12E9/125	0.161	352	17.2	62	5400	7200	4128	6815
03X120 + 2X70/2 + 12G50/125	0.161	352	17.2	62	5400	7200	4128	6815
03X120 + 2X70/2 + 12G62.5/125	0.161	352	17.2	62	5400	7200	4128	6815
03X120 + 1X70 + 2X(6X2.5)C + 12E9/125	0.161	352	17.2	71	5400	7200	4580	8408
03X120 + 1X70 + 2X(6x2.5)C + 12G50/125	0.161	352	17.2	71	5400	7200	4580	8408
03X120 + 1X70 + 2X(6X2.5)C + 12G62.5/125	0.161	352	17.2	71	5400	7200	4580	8408
03x240 + 2x120/2 + 2x12E9/125	0.0801	538	34.1	80	10800	14400	8064	12462
03x240 + 2x120/2 + 2x12G50/125	0.0801	538	34.1	80	10800	14400	8064	12462
03x240 + 2x120/2 + 2x12G62.5/125	0.0801	538	34.1	80	10800	14400	8064	12462

TECHNICAL DATA NOTES

TABLE LEGEND

Symbol	Meaning
Rl	Conductor resistance
Ibl	Ampacity in air (30 deg C)
Ik	Short-circuit current (1 s)
OD	Outer diameter, approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight
G	Net weight per 1000 m

NOTES

Outer diameters are approximate. Current carrying capacity values depend on installation conditions.

CERTIFICATIONS

TEBAOFLEX CABLE