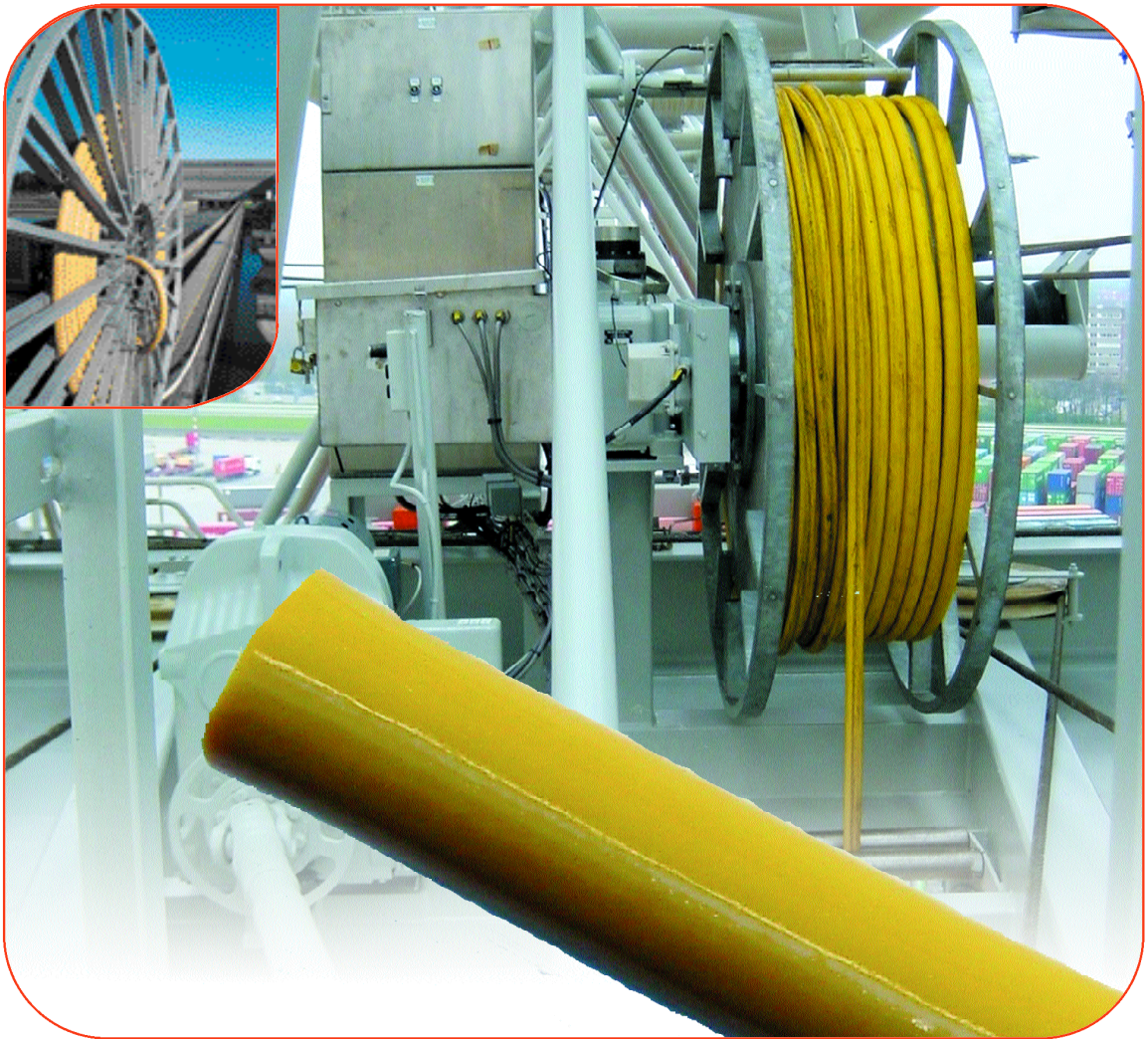


BUFLEX® Xprem
Control and Power Reeling Cables

NEW



Patent

BUFLEX® Xprem

Control and Power Reeling Cables

Applications

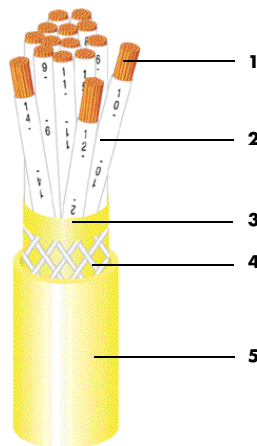
0.6/1 (1.2) kV

Cables with reinforced polyurethan sheath, especially designed for reeling applications.

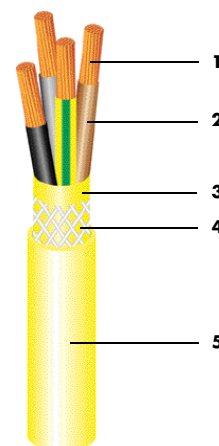
Due to high mechanical properties of XTPU, Buflex cables could be used in hard conditions as quarries, mines ... A member strength can be integrated in the design for higher tensile load and speed.

Design

- 1. Conductor**
Flexible plain copper,
class 5
IEC 60228
- 2. Insulation**
XLPE
- 3. Filler + Inner Sheath**
- 4. Reinforcement**
Anti twist element
- 5. Outer sheath**
XTPU
Colour: Gold yellow



Control



Power

Marking

BUFLEX Xprem - 0.6/1 kV
Number of cores - cross-section
NEXANS - year - week

Option

Steel or Aramide member strength

Cores Identification

Control:
white with printed numbers

Power:
4 cores:
black - brown - grey -
green/yellow (3 earth cores
for sizes $\geq 25 \text{ mm}^2$)
5 cores:
black - brown - grey - blue -
green/yellow

Standards







Nexans specification
(Patented)

BUFLEX® Xprem
Cable Characteristics

Mechanical properties	
Max. tensile load	20-25 N/mm ² of copper cross section
Bending radii	see construction characteristics page 3.1 E
Tests	Bending test, torsional test
Reeling speed	up to 120 m/min (for higher speed contact us) if it includes a member strength > 120m/mn

Chemical properties
Oil resistant. For outdoor applications. Moisture, UV and ozone resistance.

Electrical and Thermal properties		
Nominal voltage	U ₀ /U	0.6/1 kV
Maximum operating voltage in AC systems	U _m	1.2 kV
Test voltage: - Power - Control Current rating (A)	3.5 kV in AC 2.5 kV in AC see electrical characteristics page 3.2 B	
Max. temperature at the conductor : - in service - under short-circuit conditions	+ 90 °C + 250 °C	
Max. surface temperature : - fixed installation - mobile operation	- 40 °C up to + 120 °C - 30 °C up to + 110 °C	

					
Good	Excellent	Oil resistant	Flexible	Good	-30 +100°C

BUFLEX® Xprem

	Number of cores and nominal cross-section (mm ²)	Outer diameter		Weight approx. (kg/km)	Max. tensile load W.O member strength (N)
		Min. (mm)	Max. (mm)		
POWER	4 G 2.5	10	11.5	180	200
	4 G 4	11.5	13	260	320
	4 G 6	13	14.5	370	480
	4 G 10	15.5	17	580	800
	4 G 16	19.5	21.5	920	1,280
	3 x 25 + 3 G 6	23.5	25.5	1,240	1,800
	3 x 35 + 3 G 6	27	29.5	1,640	2,400
	3 x 50 + 3 G 10	30	32.5	2,240	3,600
	3 x 70 + 3 G 16	35	37.5	3,100	5,100
	3 x 95 + 3 G 16	39	42	3,890	6,600
	3 x 120 + 3 G 25	44	47	5,080	8,700
	3 x 150 + 3 G 25	49	52.5	6,160	10,500
	3 x 185 + 3 G 35	54.5	58.5	7,680	13,200
	3 x 240 + 3 G 50	60.5	64.5	9,870	17,400
	3 x 300 + 3 G 50	68.5	72.5	12,300	21,000
	5 G 2.5	11	12.5	220	250
	5 G 4	13	14.5	320	400
	5 G 6	15	16.5	450	600
	5 G 10	18	20	700	1,000
	5 G 16	22	24	1,100	1,600
5 G 25	27	29.5	1,550	2,500	
5 G 35	31	33.5	2,050	3,500	
CONTROL	7 x 1.5	11.5	13	210	210
	12 x 1.5	16	17.5	330	360
	18 x 1.5	16	17.5	410	540
	24 x 1.5	19	21.5	680	720
	36 x 1.5	22	24	900	1,080
	7 x 2.5	12.5	14	30	350
	12 x 2.5	18.5	20.5	610	600
	18 x 2.5	18.5	20.5	740	900
	24 x 2.5	22.5	24.5	1,050	1,200
	36 x 2.5	25	28	1,430	1,800
	42 x 2.5	27	29.5	1,500	2,100
	26 x 2.5 + (4 x 2.5)C	24.5	27	1,260	1,500

*Other designs or outer diameters can be produced for special projects
* Products can be stocked if needed