

REELS, ROPES & JOINTS





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REELS

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REELS, ROPES & JOINTS

Technical value added

Tesmec manufacturing process is the key for the top quality of these products made in Italy.

Certified origin of the raw material, full control of the process and high skill personnel is the formula for high safety on site.



REELS, ROPES & JOINTS: OUR VALUE PROPOSITION



ORIGINAL BY
TESMEC



ANTI TWISTING STEEL ROPE: IT'S NOT JUST A STEEL ROPE

It's not just a steel rope!

FUA is an anti-twisting galvanized steel rope, made up of braided strands with several technical advantages.

- + Steel Quality: at the same time very strong and flexible.
- + Elongation: lower than 2.5% to avoid spring effect.
- + Galvanising: high resistance to corrosion thanks to galvanizing process of each single elementary wire.
- + Greasing: The strands are greased one by one ensuring much longer lubrication effect.
- + Special Length: available without joints or connectors.
- + Life cycle: longer than any other rope on the market, up to ten years or more (if well maintained).



SWIVEL JOINTS: RESISTANT AND LIGHT

Tesmec swivel joints offer high ratio between resistance and weight, they are assembled with thrust bearing which allows limited angular movement to adapt itself to the pulley's groove. The two sections can freely rotate under tension to release torsion accumulated on the line. They are made of high tensile galvanized steel to grant max performances and safety when in use.

Rope Safety factor 3 as a standard

The correct match of pullers and ropes is ensured by safety factor 3, that means breaking load 3 times higher than working load (as per IEC TR61328 rev.03:2017).

FUH has the same technological advantages of FUA, but is made with high tensile strength steel strands allowing higher working and breaking loads with the same linear mass.



MESH SOCK JOINTS: HANDCRAFTED & RELIABLE

Tesmec mesh sock joints are handcrafted in Italy by using strands made by single galvanized wire. The specific formation grants excellent flexibility property and performances; for such reason they are reusable for several operations.

BOF

STANDARD REELS

WORLDWIDE STANDARD DESIGN

WELDED STEEL WITH PROTECTIVE COATING



BOF

BOS360

CROSS SUPPORT

TWO CROSS ARMS INCLUDED

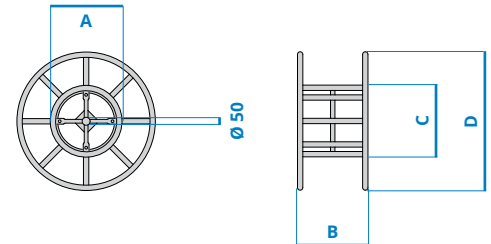
WEIGHT WITH BOLTS: 2.6 KG



BOS360

CHARACTERISTICS

MODEL	DIMENSIONS				WEIGHT
	A	B	C	D	
BOF010	420 mm	560 mm	570 mm	1100 mm	53 Kg
BOF020	420 mm	560 mm	570 mm	1400 mm	73 Kg
BOF030	420 mm	560 mm	570 mm	1900 mm	135 Kg



REEL MAX CAPACITY FOR ANTI-TWISTING BRAIDED ROPE

Ø ROPE	MODEL			
	BOF010	BOF020	BOF030	BOF330
6 m	6300 m	10000 m	22200 m	76000 m
8 m	3900 m	7100 m	13700 m	47000 m
9 m	3200 m	5900 m	11500 m	39200 m
11 m	2300 m	4300 m	8400 m	28800 m
13 m	1600 m	2850 m	5600 m	19400 m
15 m	1150 m	2000 m	4100 m	14550 m
16 m	1030 m	1900 m	3700 m	12400 m
18 m	800 m	1400 m	2800 m	9750 m
19 m	780 m	1400 m	2800 m	9300 m
21 m	-	1050 m	2150 m	7100 m
22 m	-	950 m	1900 m	6400 m
23 m	-	860 m	1750 m	6000 m
25 m	-	750 m	1550 m	5100 m
26 m	-	700 m	1400 m	4700 m
28 m	-	600 m	1150 m	4000 m
31 m	-	430 m	850 m	3100 m

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

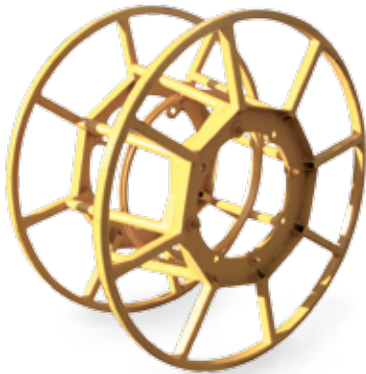
Certified Health & Safety System
ISO 45001:2018

BOC

DETACHABLE REELS

WORLDWIDE STANDARD DESIGN

WELDED STEEL WITH PROTECTIVE COATING



BOC



BOS360

BOS360

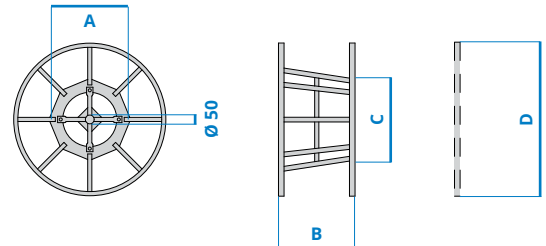
CROSS SUPPORT

TWO CROSS ARMS INCLUDED

WEIGHT WITH BOLTS: 2.6 KG

CHARACTERISTICS

MODEL	DIMENSIONS				WEIGHT
	A	B	C	D	
BOC040	420 mm	560 mm	590 mm	1100 mm	75 Kg
BOC050	420 mm	560 mm	590 mm	1400 mm	86 Kg
BOC310	420 mm	890 mm	626 mm	1900 mm	210 Kg
BOC320	420 mm	1310 mm	605 mm	2050 mm	250 Kg



REEL MAX CAPACITY FOR ANTI-TWISTING BRAIDED ROPE

Ø ROPE	MODEL			
	BOC040	BOC050	BOC310	BOC320
6 m	5600 m	10900 m	36000 m	63000 m
8 m	3500 m	6700 m	22200 m	38500 m
9 m	2850 m	5580 m	18200 m	32600 m
11 m	2150 m	4100 m	13300 m	23800 m
13 m	1400 m	2750 m	9000 m	16100 m
15 m	1100 m	2050 m	6800 m	11700 m
16 m	950 m	1750 m	6000 m	10600 m
18 m	700 m	1350 m	4500 m	7800 m
19 m	700 m	1300 m	4300 m	7800 m
21 m	-	1000 m	3400 m	6000 m
22 m	-	850 m	3000 m	5200 m
23 m	-	800 m	2800 m	4800 m
25 m	-	750 m	2400 m	4200 m
26 m	-	650 m	2100 m	3900 m
28 m	-	550 m	1900 m	3300 m
31 m	-	420 m	1450 m	2500 m

FUA

ANTI TWISTING STEEL ROPE STANDARD

HIGH FLEXIBILITY

COMPLETE STABILITY TO ROTATION

STRANDS WITH INDIVIDUAL GALVANIZED ELEMENTARY WIRES

FUH

ANTI TWISTING STEEL ROPE HIGH TENSILE

HIGH FLEXIBILITY

COMPLETE STABILITY TO ROTATION

STRANDS WITH INDIVIDUAL GALVANIZED ELEMENTARY WIRES



ORIGINAL BY
TESMEC



FUA



FUH

FUA

MODEL	WORKING LOAD*	NOMINAL DIAMETER	INDICATIVE LUBRICATED LINEAR WEIGHT	MINIMUM BREAKING LOAD*	STANDARD LENGTH**
FUA006	7.6 kN	6 mm	0.114 kg/m	22.9 kN	1800-3600 m
FUA008	14.2 kN	8 mm	0.22 kg/m	42.6 kN	1600 m
FUA611	25 kN	11 mm	0.359 kg/m	75 kN	1100 m
FUA613	35 kN	13 mm	0.502 kg/m	105 kN	800-1600 m
FUA615	50 kN	15 mm	0.712 kg/m	150 kN	900-1800 m
FUA618	75 kN	18 mm	1.072 kg/m	225 kN	1200 m
FUA621	100 kN	21 mm	1.429 kg/m	300 kN	900 m
FUA623	120 kN	23 mm	1.718 kg/m	360 kN	800 m
FUA625	140 kN	25 mm	2.004 kg/m	420 kN	700 m
FUA628	180 kN	28 mm	2.572 kg/m	540 kN	600 m

*This value is related to rope with spliced eyes and for stringing operation

**The rope is also available in different lengths and in continuous sections up to 7000 m

FUH

MODEL	WORKING LOAD*	NOMINAL DIAMETER	INDICATIVE LUBRICATED LINEAR WEIGHT	MINIMUM BREAKING LOAD*	STANDARD LENGTH**
FUH009	20 kN	9 mm	0.25 kg/m	60 kN	1500 m
FUH013	40.3 kN	13 mm	0.50 kg/m	121 kN	800-1600 m
FUH016	61 kN	16 mm	0.76 kg/m	183 kN	900-1800 m
FUH018	81 kN	18 mm	1.01 kg/m	243 kN	1200 m
FUH022	119.3 kN	22 mm	1.48 kg/m	358 kN	800 m
FUH025	160 kN	25 mm	1.72 kg/m	480 kN	700 m
FUH031	237.6 kN	31 mm	3.00 kg/m	713 kN	400 m

*This value is related to rope with spliced eyes and for stringing operation

**The rope is also available in different lengths and in continuous sections up to 7000 m

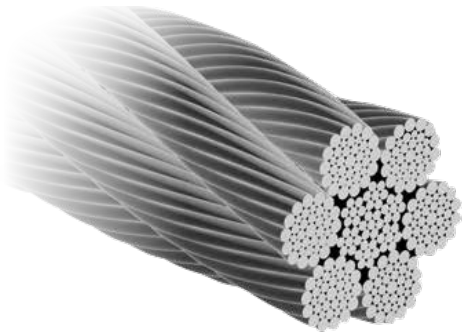
NOTE

Sections are supplied with spliced eyes in the following models:

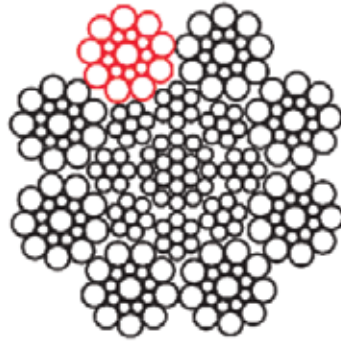
ALF001 for diameters 06-11 mm

ALF002 for diameters 13-18 mm

ALF003 for diameters 21-31 mm



FUR



FUS

FUR

HIGH RESISTANCE STEEL ROPE STANDARD

HIGH BREAKING LOAD AND FLEXIBILITY

CLASS 6X36 W81 STEEL CORE (IWRC)

STEEL GRADE 2160 N/MM²

FUS

HIGH RESISTANCE STEEL ROPE HIGHTENSILE

HIGH BREAKING LOAD AND FLEXIBILITY

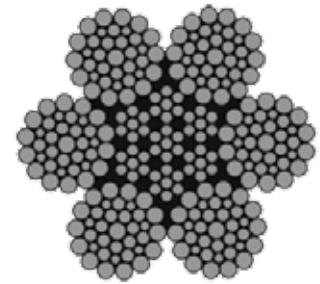
CLASS 8X19 SEALE - STEEL CORE (PWRC)

STEEL GRADE 2160 N/MM².

FUR

MODEL	NOMINAL DIAMETER	INDICATIVE LUBRICATED LINEAR WEIGHT	MINIMUM BREAKING LOAD*	WORKING LOAD*
FUR010	10 mm	0.41 kg/m	84.4 kN	28.1 kN
FUR011	11 mm	0.50 kg/m	102 kN	34 kN
FUR012	12 mm	0.59 kg/m	122 kN	40.6 kN
FUR013	13 mm	0.70 kg/m	143 kN	47.6 kN
FUR014	14 mm	0.81 kg/m	165 kN	55 kN
FUR015	15 mm	0.94 kg/m	190 kN	63.3 kN
FUR016	16 mm	1.06 kg/m	216 kN	72 kN
FUR018	18 mm	1.34 kg/m	273 kN	91 kN
FUR024	24 mm	2.38 kg/m	486 kN	162 kN

*There is up to 30% breaking load loss on eyes



FUS

MODEL	NOMINAL DIAMETER	INDICATIVE LUBRICATED LINEAR WEIGHT	MINIMUM BREAKING LOAD	WORKING LOAD*
FUS008	8 mm	0.29 kg/m	62.8 kN	21 kN
FUS009	9 mm	0.36 kg/m	79.5 kN	26.5 kN
FUS010	10 mm	0.45 kg/m	98.2 kN	32.7 kN
FUS011	11 mm	0.54 kg/m	119.3 kN	39.7 kN
FUS012	12 mm	0.65 kg/m	141.7 kN	47.2 kN
FUS013	13 mm	0.79 kg/m	168.2 kN	56 kN
FUS014	14 mm	0.92 kg/m	194.7 kN	65 kN
FUS015	15 mm	1.06 kg/m	223.2 kN	74.4 kN
FUS016	16 mm	1.20 kg/m	253.8 kN	84.6 kN

*There is up to 30% breaking load loss on eyes

NOTE

sections are supplied with compressed sleeves eyes in the following models:
ALF226 for diameters 06-12 mm
ALF228 for diameters 20-30 mm
ALF227 for diameters 13-19 mm

COH

POLYPROPYLENE POLYETHYLENE ROPE

- UV RESISTANT
- WATER PROOFED
- EASILY SPLICED



COA

NYLON ROPE

POLYESTER MESH SOCK WITH HIGH STRENGTH
NYLON CORE

SPECIAL SEWN EYES WITHOUT BREAKING
LOAD LOSS

COH

COA

COH

MODEL	DIAMETER	ROPE WEIGHT	ELONGATION WITH 20% OF BREAKING LOAD	BREAKING LOAD	STANDARD LENGTH
COH010	10 mm	0.040 kg/m	7 %	14 kN	1000 m
COH012	12 mm	0.060 kg/m	7 %	23 kN	1000 m
COH014	14 mm	0.075 kg/m	7 %	26 kN	1000 m
COH016	16 mm	0.092 kg/m	7 %	32 kN	1000 m
COH018	18 mm	0.110 kg/m	7 %	40 kN	1000 m
COH020	20 mm	0.150 kg/m	7 %	51 kN	1000 m
COH022	22 mm	0.165 kg/m	7 %	62 kN	1000 m

NOTE

Available spliced eye ALC145.

If 2 eyes are needed, 2 ALC145 have to be ordered.

COA

MODEL	DIAMETER	ROPE WEIGHT	ELONGATION WITH 30% OF BREAKING LOAD	BREAKING LOAD	STANDARD LENGTH
COA006	6 mm	0.028 kg/m	7.5 %	7.5 kN	1000 m
COA008	8 mm	0.046 kg/m	7.5 %	12 kN	1000 m
COA010	10 mm	0.073 kg/m	7.5 %	20 kN	1000 m
COA012	12 mm	0.120 kg/m	7.5 %	35 kN	1000 m
COA014	14 mm	0.145 kg/m	7.5 %	43 kN	1000 m
COA016	16 mm	0.196 kg/m	7.5 %	50 kN	1000 m
COA018	18 mm	0.240 kg/m	7.5 %	58 kN	1000 m
COA020	20 mm	0.295 kg/m	7.5 %	65 kN	1000 m

NOTE

The eyes are available in the following models:
ALC005 for diameters 08-10 mm
ALC006 for diameters 12-14 mm
ALC007 for diameters 16-20 mm

If 2 eyes are needed, 2 ALC have to be ordered.

COI

DIELECTRIC ROPE

3 STRANDS ROPE MADE OF HIGH TENACITY POLYPROPYLENE

EXCELLENT DIELECTRIC AND INSULATING PROPERTIES

NO WATER UPTAKE

COY

DYNEEMA® ROPE

12 STRANDS 100% DYNEEMA® (HMPE)

LIGHT AND EXTREMELY RESISTANT

HIGH TENACITY POLYESTER PROTECTION



COI

COY

COI

MODEL*	DIAMETER	MIN SPLICED BREAK STRENGTH	WORKING LOAD 5:1	WEIGHT
COI106	6 mm	5.27 kN	1.05 kN	20 g/m
COI108	8 mm	9.11 kN	1.82 kN	30 g/m
COI110	10 mm	13.94 kN	2.78 kN	50 g/m
COI112	12 mm	20.71 kN	4.14 kN	70 g/m
COI114	14 mm	28.47 kN	5.69 kN	90 g/m
COI116	16 mm	34.16 kN	6.83 kN	120 g/m
COI118	18 mm	45.41 kN	9.08 kN	150 g/m
COI120	20 mm	54.80 kN	10.96 kN	180 g/m

* On request, it can be supplied with: Thimbles, Spliced eyes

CHARACTERISTICS

Specific gravity 0.93

Flotability

Low flexibility

Good UV resistance additive

Weak abrasion resistance

Spliceable

Additive treatment

CAUTION

We recommend to keep the rope clean and dry to assure the highest dielectric properties. If the material is not used in good conditions, we do not assure the highest dielectric protection.

COY

MODEL*	DIAMETER	MIN SPLICED BREAK STRENGTH	WORKING LOAD 5:1	WEIGHT
COY010	10 mm	75.5 kN	15.10 kN	77 g/m
COY012	12 mm	95.15 kN	19.03 kN	100 g/m
COY014	14 mm	120.50 kN	24.10 kN	137 g/m
COY016	16 mm	148.7 kN	29.74 kN	169 g/m
COY018	18 mm	170.17 kN	34.03 kN	227 g/m
COY020	20 mm	239.77 kN	47.95 kN	277 g/m
COY022	22 mm	281.1 kN	56.22 kN	311 g/m
COY024	24 mm	382.25 kN	76.45 kN	377 g/m

* On request, it can be supplied with: Thimbles, Spliced eyes

CHARACTERISTICS

(HMPE) and Polyester. (HT)

Specific gravity 1.07

Water absorption from 0.5 to 2%

Non floating

Good flexibility

Spliceable

Excellent UV resistance

Excellent abrasion resistance

Melting point 144-152° C

Maximum working temperature 70° C

Antigratory

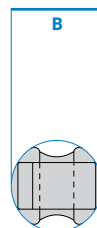
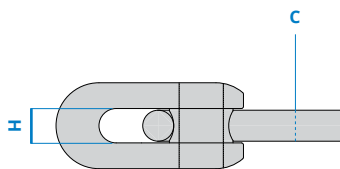
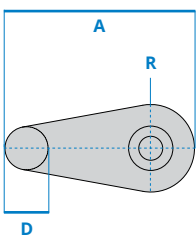
GFT

CONNECTORS

HIGHLY TENSILE FORGED GALVANIZED STEEL
COMPACT SHAPE FOR BULL WHEELS GROOVES.


GFT

MODEL	DIMENSIONS						WORKING LOAD	WEIGHT
	A	B	C max	D	H	R		
GFT001	59 mm	28 mm	10 mm	15 mm	11 mm	11 mm	23 kN	0.125 Kg
GFT010	74 mm	40 mm	13 mm	19.5 mm	14 mm	15 mm	37 kN	0.325 Kg
GFT020	91 mm	48 mm	16 mm	20 mm	19 mm	18 mm	53 kN	0.525 Kg
GFT030	102 mm	54 mm	18 mm	22 mm	19 mm	20 mm	73 kN	0.75 Kg
GFT040	121 mm	60 mm	24 mm	27 mm	26 mm	22 mm	120 kN	1.025 Kg
GFT050	174 mm	75 mm	28 mm	42 mm	30 mm	32 mm	250 kN	3.025 Kg
GFT060	183 mm	81 mm	32 mm	42 mm	34 mm	34.5 mm	250 kN	3.4 Kg



Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

Certified Quality System
ISO 9001:2015

Certified Environmental System
ISO 14001:2015

Certified Health & Safety System
ISO 45001:2018



STANDARD SWIVEL JOINTS

CONDUCTIVE SWIVEL JOINTS

GGT

STANDARD SWIVEL JOINTS

HIGHLY TENSILE GALVANIZED STEEL
RESISTANT AND LIGHT

GGT

CONDUCTIVE SWIVEL JOINTS

THEY ARE SUITABLE TO WORK IN LIVE WORKING CONDITION

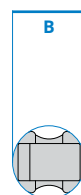
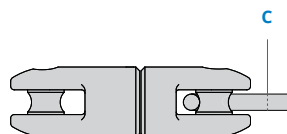
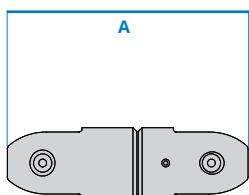
SPECIFICATION:
T <100° WITH 225 A CONTINUOUS FLOW FOR 1 H

STANDARD SWIVEL JOINTS

MODEL	DIMENSIONS			WORKING LOAD	WEIGHT
	A	B	C max		
GGT001	106 mm	28 mm	10 mm	23 kN	0.3 Kg
GGT010	143 mm	40 mm	13 mm	37 kN	0.925 Kg
GGT020	184 mm	54 mm	18 mm	73 kN	2.15 Kg
GGT030	234 mm	60 mm	24 mm	120 kN	3.4 Kg
GGT040	322 mm	77 mm	28 mm	250 kN	8.2 Kg
GGT180	336 mm	81 mm	32 mm	250 kN	8.7 Kg
GGT260	403 mm	104 mm	38 mm	330 kN	19.5 Kg

CONDUCTIVE SWIVEL JOINTS

MODEL	DIMENSIONS			WORKING LOAD	WEIGHT
	A	B	C max		
GGT081	184 mm	54 mm	18 mm	60 kN	2 Kg
GGT170	243 mm	60 mm	24 mm	97 kN	3.4 Kg



GCT

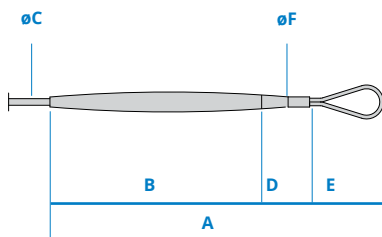
SINGLE HEAD SOCK JOINTS

 FLEXIBLE

 REUSABLE


HEAD

MODEL	SUITABLE SWIVEL	Ø CONDUCTOR RANGE	DIMENSIONS					IDENTIFYING COLOUR	WORKING LOAD	WEIGHT
			A	B	D	E	F			
GCT001	GGT001	8-17 mm	1400 mm	1100 mm	140 mm	160 mm	22 mm	yellow	12 kN	0.7 Kg
GCT010	GGT010	17-29 mm	1700 mm	1360 mm	160 mm	180 mm	28 mm	red	28 kN	1.3 Kg
GCT020	GGT020	29-38 mm	1900 mm	1470 mm	200 mm	230 mm	30 mm	green	43 kN	2.1 Kg
GCT030	GGT020 GGT030	38-50 mm	2270 mm	1820 mm	200 mm	250 mm	34 mm	black	60 kN	2.7 Kg



GCT

DOUBLE HEAD SOCK JOINTS

 FLEXIBLE

 REUSABLE



DOUBLE HEAD

MODEL	Ø CONDUCTOR RANGE	DIMENSIONS					IDENTIFYING COLOUR	WORKING LOAD	WEIGHT
		A	B	D	F	I			
GCT500	8-17 mm	2680 mm	1100 mm	140 mm	22 mm	200 mm	yellow	12 kN	1.15 Kg
GCT510	17-29 mm	3240 mm	1360 mm	160 mm	28 mm	200 mm	red	28 kN	2.3 Kg
GCT520	29-38 mm	3540 mm	1470 mm	200 mm	30 mm	200 mm	green	43 kN	3.6 Kg
GCT530	38-50 mm	4240 mm	1820 mm	200 mm	34 mm	200 mm	black	60 kN	4.8 Kg

