Wire Rope Ordering Information WIRE ROPE MANUFACTURED BY GUSTAV WOLF

Ordering governor and/or compensation ropes

The ordering procedure is similar to hoist ropes but you may have to rely on the rope tag to a greater degree because there is no crosshead data plate for governor or compensation ropes. However:

1) Measure the diameter of the rope. Use a caliper, micrometer or Go/No Go gauge.

2) Go to the shackles and confirm the stranding (6 or 8) of the ropes. Almost all compensation and governor ropes have 8 strands (refer to the rope cross-sections shown in this catalog).

Look at the rope tag to determine breaking strength and then refer to the information in this catalog or contact your Draka representative for the correct grade (Iron or Traction).

3) Consider the rope grade or tensile strength. Governor and compensation ropes are either Iron or Traction – never Extra High Strength Traction (EHST).

4) Confirm the lay of the rope. Governor and compensation ropes are always Right Regular lay and never Right Lang lay.

Other considerations

Preformed rope is always preferred for its longer life and ease of installation.

Replace all governor and compensation ropes with preformed ropes.

Handling of wire ropes prior to and during installation

Reels are best transported on the job site by rolling on a clean flat surface or by lifting from a pipe in the reel center hole.

Wire rope should be stored indoors, off the ground and covered to protect it from moisture, dirt, dust, sunlight, etc.

Care must be taken to unroll and not laterally pull wire rope when paying it off the reel. Kinking and dragging ropes over sharp edges must be avoided.

Ropes must be prevented from rotating during installation since free-hanging ropes will untwist under their own weight. The use of reeving splices is recommended and these are available on page 62 of this catalog.

Loose rope ends should always be seized or secured with cable bands to prevent untwisting. Cable bands are available on page 62 of this catalog.

The installers should continually inspect wire rope during installation to identify any areas which may have been damaged in shipment or while in storage on the job site. Per ASME A17.1b-2009/CSA B44b-09 8.6.3.2 and ASME A17.6-2010 1.10.5, where one suspension rope has been damaged during installation or acceptance testing prior to being subjected to elevator service, it shall be permissible to replace a single damaged rope with a new rope, provided that the requirements of 8.6.3.2.1 through 8.6.3.2.6 and 1.10.4.4 and 1.10.5.1 through 1.10.5.6 respectively are met.

Use these tools to cut and measure wire rope. See page 88 for details.

#WR-IMPACT Impact cutter #WR-HYDRAULIC Hydraulic cutter





Tensioning

It is important to equally tension all the hoist ropes immediately after installation and during subsequent inspections in order to avoid differential wear of sheave grooves and ropes and to extend rope service life.

Ropes are considered to be equally tensioned when the smallest tension measured is within 10% of the highest tension measured. Ropes with greater tension/load will press harder into the sheave grooves resulting in increased overall rope wear while ropes with lesser tension/load will slide through the sheave grooves causing increased crown and sheave wear.

Highly accurate rope tension measuring devices are available which allow the quick and accurate checking of tension. Tension measuring devices are available on pages 64, 65 and 88 of this catalog.

Field lubrication policy

Draka strongly recommends an annual lubrication application every spring, if the ropes become dry or at 250,000 cycles, whichever occurs first.

Ropes should be lubricated prior to summer and the increased temperature and humidity it brings. Condensation caused by the combination of an air conditioned machine room and a humid hoistway must be kept from entering the rope core.

The practice of re-lubrication based on time interval alone is no longer valid. As already mentioned, ropes on modern elevators are subject to greater stress which requires that cycle counts also be considered when deciding the right time to re-lubricate. Studies show that following the 250,000 cycle guideline will contribute to extended rope service life. **Never field lubricate governor ropes.** See Draka Tech Tip #6 for detailed lubrication instructions.

Wire rope may be paid off a reel supported by jack stands with a helper using a board as a brake...

...or by paying it off a coil as the helper rotates it...

...or by paying it off a bollard as the helper rotates it.



#WR-QBTM-2 Tension meter

#WR-CALIPER-C Digital caliper



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51

Ratchet cutter

#WR-MT Rope gauge



#WR-RATCHET

Pry

Wire Rope Selection Guide IMPERIAL DIAMETERS WITH PART NUMBERS, E-MODULE AND ELONGATION VALUES

Application	Recommended Rope	Rope	E-Module [†]	Stretch ⁺⁺ per 100' • 30 m of Hoist Rope
	and Rope Part Number	Description	n/mm²	(Elastic) + (Constructional) = Total inches • mm
Hoist for Low/Mid-rise	F 819 S-FE DT	8x19 Seale	65000 - 70000	(2 - 3) + (2 - 4) = 4 - 7 inches •
(up to 200' • 60 m)	3/8" = 80-001-A	traction grade		(51 - 76) + (51 - 102) = 102 - 178 mm
	1/2" = 80-002-A	natural fiber core		
	5/8" = 80-003-A			
	11/16" = 80-039-A			
Hoist for Mid/High-rise	F 819 S-FE DT EHS	8x19 Seale	65000 - 70000	$(2^{1}/_{2} - 3) + (2 - 4^{1}/_{2}) = 4^{1}/_{2} - 7^{1}/_{2}$ inches •
(> 200' • 60 m)	3/8" = 80-001EHS-A	EHS traction grade		(63 - 76) + (51 - 114) = 114 - 190 mm
	1/2" = 80-002EHS-A	natural fiber core		
	5/8" = 80-003EHS-A			
	11/16" = 80-039EHS-A			
	PAWO F3	8x19 Seale	75000 - 80000	$(1^{1}/_{2} - 2) + (1^{1}/_{2} - 2) = 3 - 4$ inches •
	3/8" = 80-016-A	EHS traction grade*		(38 - 51) + (38 - 51) = 76 - 102 mm
	1/2" = 80-020-A	steel reinforced natural fiber core		
	5/8" = 80-024-A	(lower-stretch alternative		
	11/16" = 80-047-A	to F 819 S-FE DT EHS above)		
Hoist for High-rise	PAWO F10	9x17 or 9x21 Filler Wire	80000 -85000	$(1^{1}/_{2} - 2) + (1^{1}/_{2} - 1) = 2 - 3$ inches •
(> 300' • 90 m)	3/8" = 80-104	EHS traction grade*		(38 - 51) + (13 - 25) = 51 - 76 mm
	1/2" = 80-108	full steel core		
	5/8" = 80-113			
	11/16" = 80-115			
Hoist for Installations	CompactTrac™	8x19 Seale/compacted strands	65000 - 70000	(2 - 3) + (2 - 4) = 4 - 7 inches •
with Reverse Bends	3/8" = 80-001CSLL-A	traction grade		(51 - 76) + (51 - 102) = 102 - 178 mm
(e.g. Basement Machines)	1/2" = 80-002CSLL-A	natural fiber core		(these are estimated dimensions)
	5/8" = 80-003CSLL-A			
Governor	F 819 S-FE DT	8x19 Seale	n/a	n/a n/a
(select Seale in Traction or	1/4" = 80-000-A	traction grade		
Warrington in Traction or Iron)	3/8" = 80-001-A	natural fiber core		
	1/2" = 80-002-A			
	5/8" = 80-003-A			
	F 819 W-FE DT	8x19 Warrington	n/a	n/a n/a
	3/8" = 80-001W	traction grade		
		natural fiber core		
	F 819 W-FE DT Iron	8x19 Warrington	n/a	n/a n/a
	3/8" = 80-010IRONW	iron grade		
	7/16" = 80-007IRON-K (Seale)	natural fiber core		
Compensation/Governor	F 819 F-FE DT	8x25 Filler Wire	n/a	n/a n/a
(select Traction or Iron)	1/2" = 80-002FW	traction grade		
	5/8" = 80-003FW	natural fiber core		
	3/4" = 80-013FW			
	F 819 F-FE DT Iron	8x25 Filler Wire	n/a	n/a n/a
	1/2" = 80-011IRONFW	iron grade		
	5/8" = 80-012IRONFW	natural fiber core		
	3/4" = 80-013IRONFW-K			

Other imperial diameters are available. Refer to pages 53-54 of this catalog or contact Draka for additional information.

The goal of the suggested hoist rope guidelines is to achieve maximum rope service life and minimum rope elongation. The guidelines for hoist rope are based on Rise/Travel and apply to standard 1:1 overhead machine installations only unless otherwise indicated. Other machine arrangements should be discussed with your Gustav Wolf representative prior to ordering.

It is strongly recommended that the sheaves of existing elevators be carefully checked and re-grooved or replaced as necessary prior to rope replacement. The diameter of the new ropes is greater than that of the old ropes and failure to bring the sheave grooves into the machine manufacturer's specified tolerances can lead to vibration, metal shavings and other problems.

To insure maximum rope and sheave life a program of regular re-lubrication should be adopted. Refer to page 51 of this catalog for information on field relubrication. DrakaLube[™] is available (see page 63).

Rope and sheave life will be maximized if hoist rope tension is equalized (within a 10% range) at the time of rope installation and at regular intervals thereafter (see page 51 for more information). The use of the portable RTS Rope Tensioning System (available on page 64 of this catalog) is recommended.

† Modulus of elasticity is calculated per VDI 2358-1984.

the Elongation is calculated at 10% of Minimum Breaking Force (MBF).
*Actual minimum tensile strength of outer wires is 1570 N/mm2 (227,800 psi).

Range of acceptable traction sheave hardness based on rope grade/tensile strength:

Wire Rope Type (see table above and other ropes in this catalog)	Minimum Tensile Strength of Outer Wires (N/mm² • psi)	Hardness of Traction Sheave (Brinell)
F 819 W-FC DT Iron &	680 • 100,000 (iron grade)	For governor/comp. only
F 819 F-FC DT Iron		
F 819 S-FC DT, CompactTrac™,	1180 • 170,000 (traction grade)	180 - 200
F 819 W-FC DT & F 819 F-FC DT		
Metric F 819 S-FC DT (see page 55)	1370 • 198,800	200 - 230
PAWO F3, F7, F7S & F10	1570 • 227,800	220 - 240
F 819 S-FC DT EHS	1670 • 245,000 (EHS traction grade)	230 - 250



Wire Rope by Gustav Wolf IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44 AND A17.6 FOR STANDARD APPLICATIONS

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight Ibs/ft • kg/m	
80-000-A	Hoist / Gov.	1/4	Traction	Regular	3600 • 16025	0.09 • 0.14	
80-001-A	Hoist / Gov.	3/8	Traction	Regular	8200 • 36475	0.21 • 0.31	888.988.888
80-001EHS-A	Hoist	3/8	EHST	Regular	9900 • 44050	0.21 • 0.31	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
80-001EHSLL-A	Hoist	3/8	EHST	Lang	9900 • 44050	0.21 • 0.31	
80-007IRON-K	Governor	7/16	Iron	Regular	5600 • 24900	0.28 • 0.42	
80-002-A	Hoist / Gov.	1/2	Traction	Regular	14500 • 64500	0.36 • 0.54	
80-002LL-A	Hoist	1/2	Traction	Lang	14500 • 64500	0.36 • 0.54	
80-002EHS-A	Hoist	1/2	EHST	Regular	17500 • 77850	0.36 • 0.54	
80-002EHSLL-A	Hoist	1/2	EHST	Lang	17500 • 77850	0.36 • 0.54	
80-038-A	Hoist	9/16	Traction	Regular	18500 • 82300	0.46 • 0.68	
80-038EHS-A	Hoist	9/16	EHST	Regular	22100 • 98300	0.46 • 0.68	
80-003-A	Hoist / Gov.	5/8	Traction	Regular	23000 • 102300	0.58 • 0.86	
80-003LL-A	Hoist	5/8	Traction	Lang	23000 • 102300	0.58 • 0.86	
80-003EHS-A	Hoist	5/8	EHST	Regular	27200 • 121000	0.58 • 0.86	
80-003EHSLL-A	Hoist	5/8	EHST	Lang	27200 • 121000	0.58 • 0.86	
80-039-A	Hoist	11/16	Traction	Regular	27000 • 120100	0.69 • 1.03	
80-039LL-A	Hoist	11/16	Traction	Lang	27000 • 120100	0.69 • 1.03	
80-039EHS-A	Hoist	11/16	EHST	Regular	32800 • 145900	0.69 • 1.03	
80-039EHSLL-A	Hoist	11/16	EHST	Lang	32800 • 145900	0.69 • 1.03	
80-013-A	Hoist	3/4	Traction	Regular	32000 • 142350	0.82 • 1.22	
80-013EHS-A	Hoist	3/4	EHST	Regular	38900 • 173025	0.82 • 1.22	
80-013EHSLL-A	Hoist	3/4	EHST	Lang	38900 • 173025	0.82 • 1.22	
80-040-A	Hoist	13/16	Traction	Regular	37000 • 164575	0.96 • 1.43	
80-014-A	Hoist	7/8	Traction	Regular	42000 • 186825	1.11 • 1.65	
80-042-A	Hoist	1	Traction	Regular	54000 • 240200	1.45 • 2.16	

Hoist, hoist / governor and governor - 8 x 19 Seale with natural fiber core

The most popular rope design in North America. Eight-strand/Seale construction with its larger outer wires better resists abrasion and wear. Dual-tensile design provides high-breaking strength without damage to sheaves with lower Brinell hardness. Available in Traction or Extra High Strength Traction (EHST) grade and Right Regular or Right Lang lay.

Governor - 8 x 19 Warrington with natural fiber core

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m	
80-001W	Governor	3/8	Traction	Regular	8200 • 36475	0.20 • 0.30	
80-010IR0NW	Governor	3/8	Iron	Regular	4200 • 18675	0.20 • 0.30	
	·					·	willow .

Eight-strand/Warrington construction is more flexible and makes this rope well-suited for governor applications. Available in Traction or Iron grade.

Compensation / governor and compensation – 8 x 25 Filler Wire with natural fiber core

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight Ibs/ft•kg/m	
80-002FW	Comp./Gov.	1/2	Traction	Regular	14500 • 64500	0.36 • 0.54	
80-011IRONFW	Comp./Gov.	1/2	Iron	Regular	7200 • 32025	0.36 • 0.54	- 0000 0000 00000 80000 000000
80-003FW	Comp./Gov.	5/8	Traction	Regular	23000 • 102300	0.62 • 0.92	
80-012IRONFW	Comp./Gov.	5/8	Iron	Regular	11200 • 49825	0.62 • 0.92	
80-013FW	Compensation	3/4	Traction	Regular	32000 • 142350	0.82 • 1.22	
80-013IRONFW-K	Compensation	3/4	Iron	Regular	16000 • 71175	0.82 • 1.22	

Eight-strand/Filler Wire construction with its higher wire count provides greater flexibility and makes this rope a good match for compensating applications. Available in Traction or Iron grade.

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish. All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

Part Number	Application	Diameter inches	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf• N	Net Weight Ibs/ft • kg/m
80-016-A	Hoist	3/8	1570	Regular	12225 • 54400	0.24 • 0.35
80-020-A	Hoist	1/2	1570	Regular	22100 • 98300	0.42 • 0.62
80-024-A	Hoist	5/8	1570	Regular	34800 • 154800	0.66 • 0.98
80-047-A	Hoist	11/16	1570	Regular	42050 • 187000	0.81 • 1.20
80-048-A	Hoist	3/4	1570	Regular	48925 • 217600	0.93 • 1.38

Hoist PAWO F3 - 8 x 19 Seale with steel-reinforced natural fiber core

Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. Eightstrand/Seale construction with its larger outer wires increases wear resistance. Recommended for use on mid/high-rise elevators wherever Extra High Strength Traction (EHST) grade wire rope is specified to extend rope service life and reduce or eliminate the labor cost of repeated rope shortenings. PAWO F3 comes with a green surface line.

Hoist PAWO F10 – 9 x 17 or 9 x 21 Filler Wire with Independent Wire Rope Core

Part Number	Construction	Application	Diameter inches	Tensile Strength N/mm²	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft•kg/m	80-104
80-104	9 x 17 Filler Wire	Hoist	3/8	1570	Regular	13600 • 60500	0.26 • 0.38	
80-108	9 x 21 Filler Wire	Hoist	1/2	1570	Regular	24625 • 109500	0.46 • 0.68	
80-113	9 x 21 Filler Wire	Hoist	5/8	1570	Regular	39125 • 174000	0.73 • 1.08	886386
80-115	9 x 21 Filler Wire	Hoist	11/16	1570	Regular	46750 • 208000	0.88 • 1.30	
80-117	9 x 21 Filler Wire	Hoist	3/4	1570	Regular	55050 • 244900	1.02 • 1.51	80-108 to 117

Designed specifically for demanding high-rise/high-speed applications. Full steel core (IWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. Recommended for use on high-rise/high-speed elevators wherever Extra High Strength Traction (EHST) grade wire rope is specified to achieve the ultimate in wire rope performance. PAWO F10 comes with a white surface line.

Hoist CompactTrac[™] compacted strand – 8 x 19 Seale with natural fiber core

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight Ibs/ft • kg/m	B B B B B B B B B B B B B B B B B B B
80-001CSLL-A	Hoist	3/8	Traction	Lang	9400 • 41800	0.22 • 0.32	
80-002CSLL-A	Hoist	1/2	Traction	Lang	17050 • 75800	0.39 • 0.58	A Constant
80-003CSLL-A	Hoist	5/8	Traction	Lang	26925 • 119800	0.62 • 0.92	CO C

Compacted strand design of this eight-strand/Seale rope increases bending resistance. The larger contact area between ropes and sheaves reduces surface pressure and helps extend short rope service life associated with rope fatigue due to reverse bends e.g. basement machines. This is a Right Lang lay rope in Traction grade.

Hoist/governor galvanized – 8 x 19 Seale with fiber core

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force Ibf• N	Net Weight Ibs/ft•kg/m	8888 ⁸⁸⁸ 888
80-001G-K	Hoist / Gov.	3/8	Traction	Regular	8200 • 36475	0.21 • 0.31	
80-002G-A	Hoist / Gov.	1/2	Traction	Regular	14500 • 64500	0.36 • 0.54	
80-003G-A	Hoist / Gov.	5/8	Traction	Regular	23000 • 102300	0.58 • 0.86	ශාදීසිදියන

Galvanized coating on wires helps protect ropes from weather and corrosion associated with outdoor and mine elevators. This is an eight-strand/Seale construction rope in Traction grade.

Hoist and compensation / governor - 6 x 25 Filler Wire with natural fiber core

Part Number	Application	Diameter inches	Grade	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m	
80-075FW	Hoist	1/2	Traction	Regular	14500 • 64500	0.40 • 0.60	
80-075EHSFW	Hoist	1/2	EHST	Regular	20400 • 90750	0.40 • 0.60	
80-076FW-K	Hoist	5/8	Traction	Regular	23000 • 102300	0.63 • 0.94	<u> 4680 4680</u>
80-076IRONFW	Comp./Gov.	5/8	Iron	Regular	12800 • 56925	0.63 • 0.94	

Six-strand/Filler Wire rope is less flexible than eight-strand/Filler Wire rope but it is used in a limited number of older hoist, compensating and governor applications. Available in Traction, Extra High Strength Traction (EHST) or Iron grade.

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR 80-001G-K, 80-002G-A, and 80-003G-A above which are galvanized). Other diameters, strandings, constructions, grades, coatings, etc. are available by special order.





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Wire Rope by Gustav Wolf METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 AND A17.6

Metric hoist and compensation F 819 S-FC DT – 8 x 19 Seale with natural fiber core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m	CAR CAR CAR
80-005-A	Hoist	8.0	1370/1770	Regular	6850 • 30500	0.15 • 0.22	
80-090-A	Hoist	9.0	1370/1770	Regular	8625 • 38400	0.19 • 0.28	See See
80-006-A	Hoist	10.0	1370/1770	Regular	10825 • 48200	0.24 • 0.35	888,989,888
80-007-S	Hoist	11.0	1370/1770	Regular	13125 • 58400	0.29 • 0.43	
80-008-A	Hoist	12.0	1370/1770	Regular	15550 • 69200	0.34 • 0.50	
80-009-A	Hoist	13.0	1370/1770	Regular	18150 • 80700	0.40 • 0.59	
80-096-A	Hoist	14.0	1370/1770	Regular	20900 • 93000	0.46 • 0.68	
80-097-A	Hoist/Comp.	15.0	1370/1770	Regular	24275 • 108000	0.52 • 0.78	
80-098-A	Hoist/Comp.	16.0	1370/1770	Regular	27200 • 121000	0.60 • 0.89	
80-099-A	Hoist/Comp.	18.0	1370/1770	Regular	34625 • 154000	0.75 • 1.11	
80-091-A	Hoist/Comp.	19.0	1370/1770	Regular	38450 • 171000	0.85 • 1.26	

A popular metric rope design used in many standard hoist and compensating applications. Eight-strand/Seale construction with its larger outer wires better resists abrasion and wear. Dual-tensile design provides high-breaking strength without damage to sheaves with lower Brinell hardness.

Metric governor - refer to specifications below

Part Number	Construction	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
80-074	6 x 19 Seale	Governor	6.0	1770	Regular	4725 • 21000	0.09 • 0.13
80-080-S	6 x 19 Seale	Governor	6.0	1770	Regular	4725 • 21000	0.09 • 0.13
80-086	6 x 19 Seale - PAWO F3	Governor	6.0	1960	Regular	6175 • 27500	0.10 • 0.15
80-084	6 x 19 Warrington	Governor	6.5	1770	Regular	5800 • 25800	0.11 • 0.16
80-043-A	6 x 19 Seale - PAWO F3	Governor	6.5	1570	Regular	5825 • 25900	0.11 • 0.16
80-094	8 x 19 Warrington - PAWO 819W	Governor	6.5	1770	Regular	6675 • 29700	0.12 • 0.17
80-045-A	8 x 19 Seale - PAWO F3	Governor	8.0	1570	Regular	8550 • 38000	0.16 • 0.24
80-102	9 x 17 Filler Wire - PAWO F10	Governor	8.0	1570	Regular	9700 • 43200	0.18 • 0.27
80-077	8 x 19 Seale	Governor	9.5	1770	Regular	10525 • 46800	0.21 • 0.31
80-016-A	8 x 19 Seale - PAWO F3	Governor	9.5	1570	Regular	12225 • 54400	0.24 • 0.35
80-104	9 x 17 Filler Wire - PAWO F10	Governor	9.5	1570	Regular	13600 • 60500	0.26 • 0.38
80-105	9 x 17 Filler Wire - PAWO F10	Governor	10.0	1570	Regular	15100 • 67200	0.28 • 0.42



80-074 and 80-080-S are 6 x 19 Seale with synthetic fiber core. 80-080-S is galvanized.



80-045-A and 80-016-A are 8 x 19 PAWO F3 Seale with steel-reinforced natural fiber core.



80-086 and 80-043-A are 6 x 19 PAWO F3 Seale with steel-reinforced natural fiber core.



80-077 is 8 x 19 Seale with synthetic fiber core, galvanized.



80-084 is 6 x 19 Warrington with natural fiber core.



80-102, 80-104 and 80-105 are 9 x 17 PAWO F10 Filler Wire with full steel core (IWRC).



80-094 is 8 x 19 PAWO 819W Warrington with full steel core (IWRC).

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR 80-080-S and 80-077 above which are galvanized). All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.





Wire Rope by Gustav Wolf METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 AND A17.6

Metric hoist and compensation PAWO F3 - 8 x 19 Seale with steel-reinforced natural fiber core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m
80-045-A	Hoist	8.0	1570	Regular	8550 • 38000	0.16 • 0.24
80-015-A	Hoist	9.0	1570	Regular	10850 • 48300	0.21 • 0.31
80-017-A	Hoist	10.0	1570	Regular	13600 • 60500	0.26 • 0.39
80-018-A	Hoist	11.0	1570	Regular	16500 • 73400	0.32 • 0.47
80-019-A	Hoist	12.0	1570	Regular	19525 • 86800	0.37 • 0.55
80-021-A	Hoist	13.0	1570	Regular	23175 • 103100	0.44 • 0.65
80-022-A	Hoist	14.0	1570	Regular	26825 • 119300	0.51 • 0.75
80-023-A	Hoist/Comp.	15.0	1570	Regular	30925 • 137600	0.59 • 0.87
80-024-A	Hoist/Comp.	16.0	1570	Regular	34800 • 154800	0.66 • 0.98
80-026-A	Hoist/Comp.	18.0	1570	Regular	43525 • 193600	0.83 • 1.23
80-048-A	Hoist/Comp.	19.0	1570	Regular	48925 • 217600	0.93 • 1.38

Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. Eightstrand/Seale construction with its larger outer wires increases wear resistance. PAWO F3 comes with a green surface line.

Metric hoist PAWO F7 – 8 x 19 Warrington with steel-reinforced natural fiber core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m	
80-056-A	Hoist	8.0	1570	Regular	9125 • 40600	0.18 • 0.26	
80-027-A	Hoist	9.0	1570	Regular	11650 • 51800	0.22 • 0.33	
80-029-A	Hoist	10.0	1570	Regular	14250 • 63400	0.27 • 0.40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
80-030-A	Hoist	11.0	1570	Regular	17275 • 76800	0.33•0.49	
80-031-A	Hoist	12.0	1570	Regular	20400 • 90700	0.38 • 0.57	
80-033-A	Hoist	13.0	1570	Regular	23600 • 105000	0.45 • 0.67	
80-034-A	Hoist	14.0	1570	Regular	27950 • 124300	0.53 • 0.78	
80-035-A	Hoist	15.0	1570	Regular	31450 • 139900	0.60 • 0.89	
80-036-A	Hoist	16.0	1570	Regular	36050 • 160400	0.69 • 1.02	
80-059-A	Hoist	19.0	1570	Regular	50725 • 225600	0.96 • 1.42	

Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. More flexible eight-strand/Warrington construction resists rope fatigue due to bending in installations with numerous rope bends. PAWO F7 comes with a green surface line.

Metric hoist PAWO F7S – 8 x 19 Warrington with Independent Wire Rope Core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft•kg/m	
80-056SC	Hoist	8.0	1570	Regular	10025 • 44600	0.19 • 0.28	
80-027SC	Hoist	9.0	1570	Regular	12600 • 56000	0.24 • 0.36	
80-029SC-S	Hoist	10.0	1570	Regular	15625 • 69500	0.30 • 0.44	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
80-030SC	Hoist	11.0	1570	Regular	18675 • 83100	0.35 • 0.52	
80-031SC	Hoist	12.0	1570	Regular	22225 • 98900	0.42 • 0.62	
80-033SC	Hoist	13.0	1570	Regular	26075 • 116000	0.49 • 0.73	
80-034SC	Hoist	14.0	1570	Regular	30300 • 134800	0.58 • 0.86	
80-035SC	Hoist	15.0	1570	Regular	34350 • 152800	0.65 • 0.96	
80-036SC	Hoist	16.0	1570	Regular	39600 • 176100	0.74 • 1.10	
80-004SC	Hoist	18.0	1570	Regular	49150 • 218600	0.93 • 1.38	
80-059SC	Hoist	19.0	1570	Regular	55125 • 245200	1.04 • 1.54	

Full steel core (IWRC) reduces stretch and cross-section deformation to a minimum while maximizing breaking strength. More flexible eight-strand/Warrington construction resists rope fatigue due to bending in installations with numerous rope bends and smaller sheaves. PAWO F7S comes with a green surface line.

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish. All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.



Wire Rope by Gustav Wolf METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 AND A17.6

Metric hoist PAWO F10 – 9 x 17 Filler Wire with Independent Wire Rope Core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m
80-102	Hoist	8.0	1570	Regular	9700 • 43200	0.18 • 0.27
80-103	Hoist	9.0	1570	Regular	12300 • 54800	0.23 • 0.34
80-105	Hoist	10.0	1570	Regular	15100 • 67200	0.28 • 0.42
80-106	Hoist	11.0	1570	Regular	18000 • 80200	0.34 • 0.51
80-107	Hoist	12.0	1570	Regular	21500 • 95600	0.40 • 0.60

Designed specifically for demanding high-rise/high-speed applications using rope diameters of 8.0 to 12.0 mm. Full steel core (IWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. PAWO F10 comes with a white surface line.

Metric hoist and compensation PAWO F10 – 9 x 21 Filler Wire with Independent Wire Rope Core

Part Number	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force Ibf • N	Net Weight Ibs/ft • kg/m
80-109	Hoist	13.0	1570	Regular	25500 • 113400	0.48 • 0.71
80-110	Hoist	14.0	1570	Regular	30500 • 135700	0.57 • 0.85
80-112	Hoist/Comp.	15.0	1570	Regular	34350 • 152800	0.64 • 0.95
80-113	Hoist/Comp.	16.0	1570	Regular	39125 • 174000	0.73 • 1.08
80-116	Hoist/Comp.	18.0	1570	Regular	49400 • 219700	0.92 • 1.37
80-117	Hoist/Comp.	19.0	1570	Regular	55050 • 244900	1.02 • 1.51

Designed specifically for demanding high-rise/high-speed applications using rope diameters of 13.0 mm and larger. Full steel core (IWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. PAWO F10 comes with a white surface line.

Metric hoist PAWO F4e – 8 x 19 Seale with synthetic fiber core and two 0.96 mm² (>18 AWG) conductors

Part Number	Construction	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft•kg/m
80-081	8 x 19 Seale (PAWO F4e)	Hoist	8.0	1770	Regular	7450 • 33200	0.17 • 0.25

Metric hoist PAWO F5e – 6 x 19 Seale with synthetic fiber core and one 0.96 mm² (>18 AWG) conductors

Part Number	Construction	Application	Diameter mm	Tensile Strength N/mm²	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
80-067	6 x 19 Seale (PAWO F5e)	Hoist	8.0	1770	Regular	8600 • 38200	0.16 • 0.23

Galvanized coating on wires and 0.96 mm² (>18 AWG) electrical conductors make these six- or eight-strand/Seale ropes suitable for use on outdoor maintenance platforms and similar applications. Diameters in addition to 8.0 mm are available.

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR 80-081 and 80-067 above which are galvanized). All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.



