

**new**

The age of steel wire & rope is over.

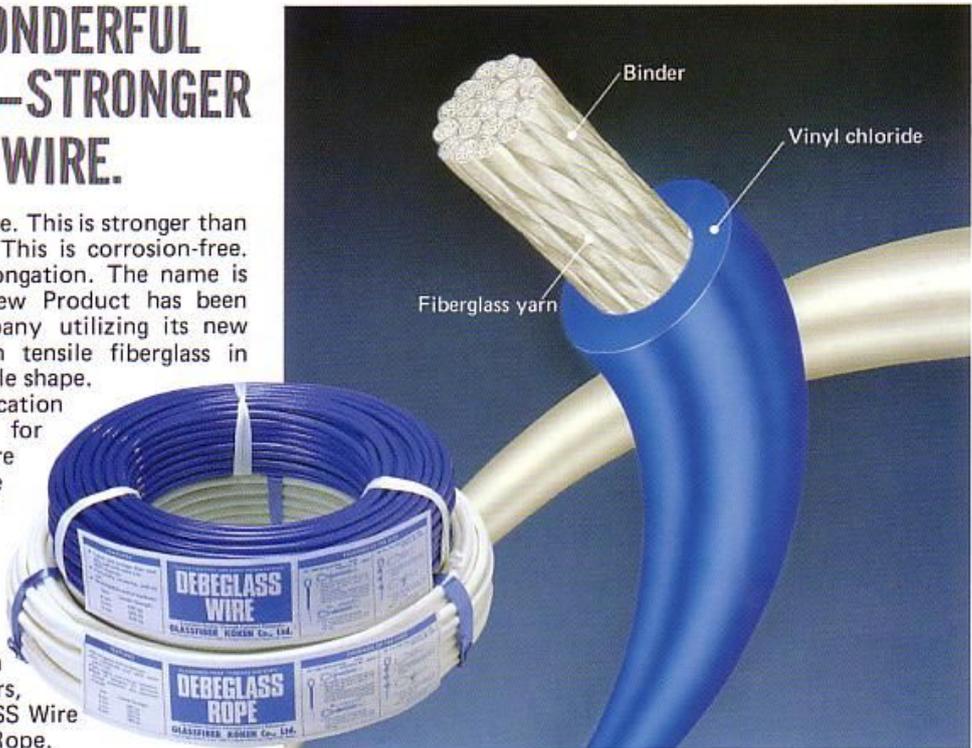
# DEBEGLASS WIRE & ROPE

## DEBUT OF WONDERFUL GLASS WIRE—STRONGER THAN STEEL WIRE.

Here's an ideal type of wire. This is stronger than steel wire. This is light. This is corrosion-free. This shows nearly no elongation. The name is "DEBEGLASS". This New Product has been developed by our Company utilizing its new technology to bind high tensile fiberglass in condensed concentric circle shape.

This has endless application fields including those for critical environments where the wires and ropes are exposed to sea water or rain storm, or where electrical insulation and non-magnetic properties are required.

The New Product is available in two types in different core diameters, namely, Blue DEBEGLASS Wire and White DEBEGLASS Rope.



## STRONG! LIGHT! AND POWERFUL!!

( Even the thinnest 4 mm diameter DEBEGLASS wire can hang two drums fully filled with water. )

The tensile strength is 430 kg for the thinnest 4 mm diameter DEBEGLASS wire.

This is far stronger than the steel wire having the same diameter. Moreover, the weight is over 30% less.

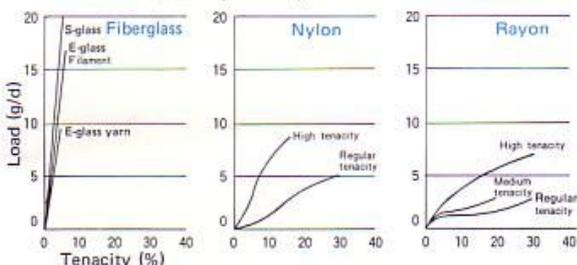
Comparison of Cross-section		DEBEGLASS WIRE		STEEL WIRE	
• DEBEGLASS WIRE (4 mmφ)		GLASS		Steel wire	
E-glass yarn		P.V.C.		P.V.C.	
1x19, Vinyl coated		DEBEGLASS WIRE		STEEL WIRE	
• STEEL WIRE					
Plated Class G Wire					
6x7, Vinyl coated.					
JIS G-3525-1					

Comparison of Wire Strength	4 mmφ			5 mmφ			6 mmφ			7 mmφ		
	Core dia.	Weight of 200 mm length	Tensile strength, kg	Core dia.	Weight of 200 mm length	Tensile strength, kg	Core dia.	Weight of 200 mm length	Tensile strength, kg	Core dia.	Weight of 200 mm length	Tensile strength, kg
DEBEGLASS Wire	2.5	3.9	430	3.0	6.3	560	4.0	8.8	970	—	—	—
DEBEGLASS rope	1.8	3.8	240	2.3	5.9	340	—	—	—	2.8	10.4	460
Steel Wire	2.5	5.6	370	3.15	9.3	530	4.0	14.5	850	5.0	22.0	1340
Manila rope	4.0	2.35	130	5.0	—	—	6.0	5.28	280	7.0	—	—
Cremona rope	4.0	2.10	176	5.0	3.10	264	6.0	4.60	357	7.0	6.30	450
Polyethylene rope	4.0	1.66	180	5.0	2.60	270	6.0	3.71	380	7.0	5.03	510
Nylon rope	4.0	1.97	330	5.0	3.08	500	6.0	4.43	710	7.0	6.03	940

## NO ELONGATION. NO CORROSION.

( High Weather-proof (over ten years) Good Cold-temperature-proof (-32°C) )

### • Load and tenacity curves, % of various fibers



### • Comparison of performance of various fibers

Materials	Name (filement)	Tensile strength (g/d)		Dry/wet strength (%)	Elongation (%)		Recovery of elongation (%)	Specific gravity
		Dry	Wet		Dry	Wet		
Glass	Asahi glass	15.3	15.3	100	4.8	4.8	100	2.55
	Yarn	9.6	6.7	75	3.1	2.2	100	2.55
Vinylon	Cremona	3.5~4.5	2.6~3.7	80~90	14~19	14~22	70~90	1.26~1.30
Nylon	Toray nylon	5.0~6.4	4.2~5.9	84~92	28~38	36~47	98~100	1.14
Polyester	Toray tetron	4.3~5.5	4.3~5.5	100	16~30	16~30	95~100	1.38

# DEBGLASS IS CHANGING THE WORLD OF BRACING ROPE!

**THIS IS AN IDEAL NEW PRODUCT THAT SATISFIE ALL THE REQUIREMENTS FOR PERFORMANCE OF THE ROPE.**

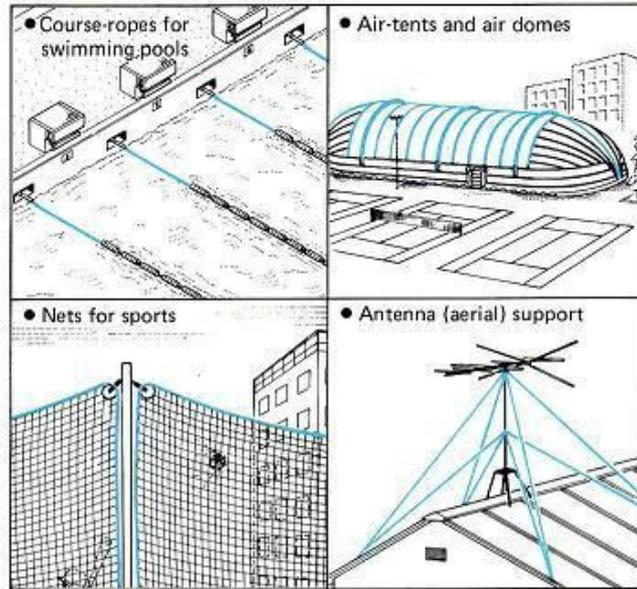
**Features:**

- High tensile strength • Light-weight • Low elongation • Corrosion-proof • Electrically insulating
- Non-magnetic • Non turning properties of rope
- Reduced adhesion of marine organism

**“THIS IS WHAT WE WANTED!” REACTION OF CUSTOMERS. CUSTOMERS HIGHLY EVALUATE DEBGLASS ROPE!**

**Applications:**

- Marine activities, fishing and ships/boats • Agricultural activities, forestation, gardening and horticulture • Electrical equipment and instrumentation • Nets for sports • Course-ropes for swimming pools • Antenna (aerial) supports • Air-tents and air domes



## EASY-TO-INSTALL. EASY-TO-USE. IT'S DEBGLASS!

**RICH RANGE OF PRODUCTS**

DEBGLASS Wire (Blue)		DEBGLASS Rope (White)	
Type	Length	Type	Length
4mmφ (Tensile strength: 430kg)	20m	4mmφ (Tensile strength: 240kg)	20m
	30m		30m
	50m		50m
	100m		100m
	200m		500m
	500m		1,000m
5mmφ (Tensile strength: 560kg)	1,000m	5mmφ (Tensile strength: 340kg)	20m
	20m		30m
	30m		50m
	50m		100m
	100m	500m	
	200m	20m	7mmφ (Tensile strength: 460kg)
500m	50m		
1,000m	100m		
20m	500m		
6mmφ (Tensile strength: 970kg)	30m	<del>9mmφ (Tensile strength: 580kg)</del>	20m
	50m		30m
	100m		50m
	200m		100m
	500m		200m
1,000m	500m		

<b>Cutting method</b>	Can be cut easily with a pruning hook (trimmer). 	<b>Finishing of the ends</b>	(A) Tight-string-winding finish (efficiency: 95 – 100%) 
<b>How to tie.</b>	Englishman's tie   Two-half hitch To attain still rigid tie, armor the end with thin string. 		1) Wind with soft binding wire or fishing-line (thickness: over No.16) tightly for an area of about 7 to 10 cm (length). As illustrated above, make a ring with a string, pass a piece of string through the ring, and pull the string. Then tie the both ends.  2) Coat with vinyl chloride binder. For protection of the string, cover with a shrinking tube or vinyl chloride tape. 
<b>Parts used for the ends</b>			(B) Fix with three knotting wire clips (efficiency: 60 – 65%) 1) As illustrated above, make a ring with a short rope to make a knot, and tie strongly.  2) Clamp the wire clip closely to the knotted rope (This is important to prevent slipping). Caution: Do not use knotted rope to a place with sharp angle.

< Excellent Quality Through Constant Research >  
**GLASSFIBER KOKEN Co.,Ltd.**

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