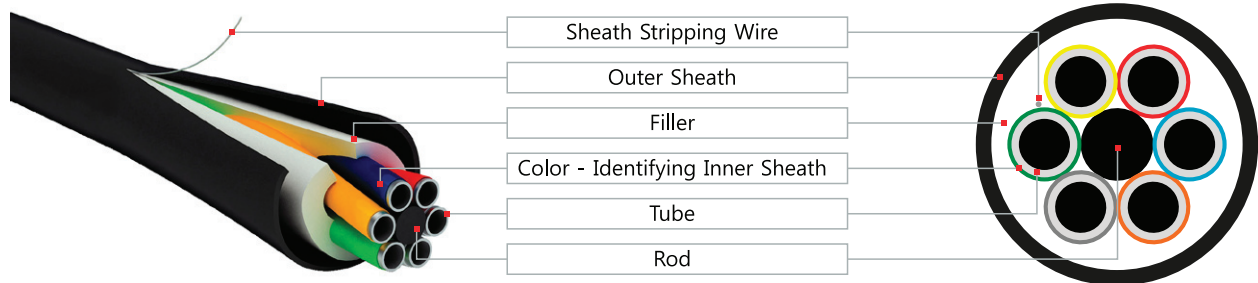


# RURY

## WIELOPRZEWODOWE

# Construction

## Cross Section View



## Tube Material

Material	National Standard					
	Alloy	UNS CODE	ASTM	KS	JIS	DIN
Stainless Steel	304	S30400	304	STS 304	SUS 304	1.4301
	316	S31600	316	STS 316	SUS 316	1.4401
	316L	S31603	316L	STS 316L	SUS 316L	1.4404
	317L	S31703	317L	STS 317L	SUS 317L	1.4438
	321	S32100	321	STS 321	SUS 321	1.4541
	347	S34700	347	STS 347	SUS 347	1.4550
High Alloy Stainless Steel	904L	N08904	-	STS 890L	SUS 890L	1.4539
Super Austenitic	6 Mo	S31254	-	-	-	1.4547
Nickel Alloy	Monel 400	N04400	400	NCF 690 TB	NCF 690 TB	2.4360
	Nickel 200	N02200	200	NCF 600 TB	NCF 600 TB	2.4066
	Inconel 600	N06600	I600	NCF 800 TB	NCF 800 TB	2.4816
	Inconel 625	N06625	I625	NCF 625 TB	NCF 625 TB	2.4856
	Inconel 825	N08825	I825	NCF 825 TB	NCF 825 TB	2.4858
	Hastelloy C22	N06022	C22	NW6022	NW6022	2.4602
	Hastelloy C276	N10276	C276	NW0276	NW0276	2.4819
Duplex	Duplex	S31803, S32205	-	STS329J3L	SUS329J3L	1.4462
	Super Duplex	S32750	-	-	-	1.4410
Copper	Copper	C12200	C12200	C1220	C1220	SF-Cu
Copper-Nickel 90/10	Cu-Ni 90/10	C70600	C70600	C7060	C7060	CW352H

Please consult us for other materials not listed.

## Sheath Material

Material	PVC	TCR PVC	FR PVC	HFFR TPU	HFFR PE	HDPE	MDPE	LDPE	XLPE
Tensile Strength (kgf/mm <sup>2</sup> )	1.2~1.4	2.0 ~ 2.4	1.5~1.7	2.3~2.8	1.0~1.4	2.6~3.0	2.3~2.7	2.2~2.6	2.0~2.4
Service Temperature (°C)	-40/+70	-50/+100	-40/+70	-50/+90	-45/+70	-75/+75	-75/+75	-75/+60	-50/+90
Elongation (%)	250~290	350~390	250~290	400~600	500~700	800~1,000	750~950	450~650	400~600
Hardness (Shore A or D)	84~90 (A)	81~85 (A)	86~90 (A)	88~92 (A)	93~95 (A)	61~65 (D)	57~61 (D)	53~57 (D)	91~95 (D)
Halogenated	O	O	O	X	X	X	X	X	X
Flame Retardant (IEC60332-1)	O	O	O	O	O	X	X	X	X
Flame Retardant (IEC60332-3-22 Category A)	X	O	O	O	O	X	X	X	X

Please consult us for other materials not listed.

TCR : Thermal & Cold Resistance, FR : Flame Retardant, HFFR : Halogen Free & Flame Retardant, HDPE : High Density Polyethylene, MDPE : Mid Density Polyethylene, LDPE : Low Density Polyethylene, XLPE : Cross-Linked Polyethylene, TPU : Thermo Plastic Polyurethane

## Specification (Metric size)

O.D.(mm)xCore	Bundle Weight (Kg/M)						Overall Diameter Approx. (mm)
	Stainless steel			Copper & Copper alloy			
	Wall Thickness(mm)			Wall Thickness(mm)			
	0.5	0.8	1.0	0.8	1.0	1.2	
6 x 1	0.12	0.16	0.18	0.17	0.20	-	9
6 x 2	0.49	0.56	0.60	0.58	0.63	-	19
6 x 3	0.57	0.66	0.72	0.69	0.77	-	20
6 x 4	0.72	0.86	0.95	0.91	1.01	-	23
6 x 5	0.81	0.98	1.08	1.04	1.16	-	24
6 x 6	1.01	1.22	1.34	1.29	1.43	-	27
6 x 7	1.04	1.28	1.43	1.36	1.53	-	27
6 x 8	1.39	1.67	1.84	1.76	1.96	-	32
6 x 9	1.60	1.92	2.10	2.10	2.22	-	34
6 x10	1.63	1.98	2.18	2.17	3.32	-	34
8 x 1	0.17	0.22	0.25	0.23	0.27	0.30	11
8 x 2	0.64	0.74	0.80	0.81	0.88	0.94	23
8 x 3	0.71	0.86	0.95	0.94	1.04	1.14	24
8 x 4	0.94	1.14	1.26	1.24	1.38	1.51	28
8 x 5	1.19	1.44	1.60	1.56	1.73	1.89	31
8 x 6	1.35	1.65	1.83	1.78	1.99	2.18	33
8 x 7	1.37	1.72	1.93	1.87	2.11	2.34	33
8 x 8	2.07	2.47	2.72	2.64	2.92	3.18	40
8 x 9	2.43	2.83	3.08	2.88	3.20	3.49	43
8 x10	2.45	2.90	3.18	2.97	3.32	3.64	43
10x 1	-	0.27	0.32	0.33	0.34	0.38	13
10x 2	-	1.02	1.10	1.07	1.16	1.25	28
10x 3	-	1.20	1.32	1.27	1.40	1.54	29
10x 4	-	1.55	1.71	1.64	1.82	2.20	33
10x 5	-	1.96	2.17	2.07	2.30	2.52	37
10x 6	-	2.26	2.50	2.39	2.67	2.93	40
10x 7	-	2.33	2.62	2.49	2.80	3.11	40
10x 8	-	3.23	3.55	3.41	3.77	4.12	48
10x 9	-	3.72	4.05	-	4.15	4.54	51
10x10	-	3.79	4.11	-	4.29	4.72	51
12x 1	-	0.32	0.38	0.34	0.44	0.49	15
12x 2	-	1.35	1.45	1.41	1.52	1.87	33
12x 3	-	1.90	2.05	-	2.15	2.32	38
12x 4	-	2.02	2.23	-	2.36	2.58	40
12x 5	-	2.17	2.43	-	2.59	-	43
12x 6	-	3.01	3.32	-	3.52	-	48

O.D.(mm)xCore	PVC sheathed tube Weight (Kg/M)						Overall Diameter Approx. (mm)
	Stainless steel				Copper & Copper alloy		
	Wall Thickness(mm)				Wall Thickness(mm)		
	1.0	1.2	1.5	2.0	1.0	1.2	
10 x 1	0.32	0.35	0.40	0.48	0.34	0.38	13
12 x 1	0.38	0.42	0.49	0.60	0.41	0.46	15
15 x 1	0.47	0.54	0.63	-	0.51	0.59	18

Please consult us for other sizes not listed.



## Specification (Imperial size)

Tube O.D.(in.)xCore	Bundle Weight (Kg/M)						Overall Diameter Approx. (mm)
	Stainless steel				Copper & Copper alloy		
	Wall Thickness				Wall Thickness		
	0.035"	1.0mm	0.049"	1.2mm	0.035"	0.049"	
1/4" x 1	0.17	0.19	0.21	0.21	0.19	0.23	9
1/4" x 2	0.75	0.77	0.83	0.81	0.78	0.87	21
1/4" x 3	1.00	1.04	1.12	1.10	1.04	1.18	22
1/4" x 4	1.10	1.15	1.28	1.26	1.16	1.34	25
1/4" x 5	1.20	1.26	1.40	1.36	1.27	1.50	26
1/4" x 6	1.40	1.47	1.64	1.60	1.49	1.76	29
1/4" x 7	1.50	1.57	1.76	1.73	1.57	1.85	29
1/4" x 8	1.94	2.02	2.24	2.21	2.02	2.34	34
1/4" x 9	2.22	2.31	2.56	2.52	2.31	2.67	36
1/4" x 10	2.29	2.39	2.67	2.63	2.39	2.79	36
3/8" x 1	0.28	0.30	0.35	0.34	0.31	0.38	13
3/8" x 2	1.14	1.18	1.27	1.25	1.18	1.33	28
3/8" x 3	1.55	1.62	1.75	1.72	1.62	1.84	29
3/8" x 4	1.90	1.98	2.16	2.12	1.99	2.28	32
3/8" x 5	2.15	2.25	2.48	2.43	2.26	2.63	36
3/8" x 6	2.35	2.47	2.74	2.68	2.47	2.86	39
3/8" x 7	2.42	2.57	2.87	2.82	2.58	3.09	39
3/8" x 8	3.09	3.25	3.62	3.57	3.25	3.81	47
3/8" x 9	3.52	3.70	4.12	4.06	3.70	4.33	50
3/8" x 10	3.57	3.77	4.24	4.17	3.77	4.47	50
1/2" x 1	-	0.41	0.47	0.46	-	0.51	16
1/2" x 2	-	1.36	1.49	1.48	-	1.57	35
1/2" x 3	-	1.82	1.94	1.92	-	2.06	41
1/2" x 4	-	2.32	2.70	2.65	-	2.85	42
1/2" x 5	-	2.62	2.92	2.87	-	3.12	47
1/2" x 6	-	3.61	3.97	3.91	-	4.21	51

Please consult us for other sizes not listed.

## Maximum Allowable Working Pressure

### Stainless Steel Seamless Tube

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)					
	0.5	0.8	1.0	1.2	1.5	2.0
6	200	330	425	525	-	-
8	145	245	310	380	-	-
10	115	190	245	295	380	530
12	-	160	200	245	310	430
15	-	-	160	190	245	335

(Unit : bar)

O.D. (in.)	Wall Thickness (in.)		
	0.035	0.049	0.065
1/4	350	515	720
3/8	225	330	450
1/2	165	240	325

### Stainless Steel Seam-welded Tube

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)					
	0.5	0.8	1.0	1.2	1.5	2.0
6	160	265	340	420	-	-
8	115	195	245	305	-	-
10	90	155	195	235	305	425
12	-	125	160	195	250	345
15	-	-	125	155	195	270

(Unit : bar)

O.D. (in.)	Wall Thickness (in.)		
	0.035	0.049	0.065
1/4	280	410	575
3/8	180	260	360
1/2	135	190	260

### Copper Tube (Soft-annealed)

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)				O.D. (in.)	Wall Thickness (in.)	
	0.8	1.0	1.2	1.4		0.035	0.049
6	105	140	175	-	1/4	110	175
8	75	100	125	-	3/8	70	110
10	60	80	100	120	1/2	50	80
12	50	65	80	95			
15	-	50	60	75			

### Cu-Ni(90/10) Tube

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)					O.D. (in.)	Wall Thickness (in.)	
	0.8	1.0	1.2	1.4	1.5		0.035	0.049
6	180	230	280	-	-	1/4	190	275
8	130	165	205	-	-	3/8	120	175
10	100	130	160	190	205	1/2	90	125
12	-	105	130	155	165			
15	-	85	100	120	130			



## CENTRALA ELBLĄG

Ul. Rawska 19B  
82-300 Elbląg

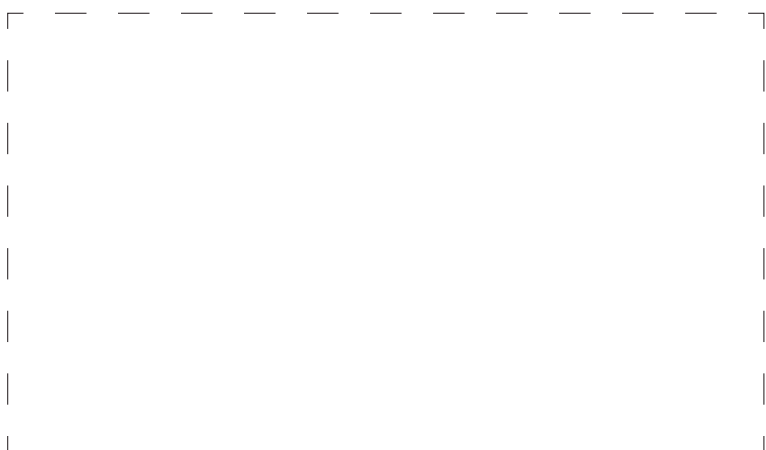
tel. /+48/ 55 625 51 00

fax /+48/ 55 625 51 01

### Dział Handlowy

tel. /+48/ 55 625 51 51

elblag@hydropress.pl



[www.hydropress.pl](http://www.hydropress.pl)

### ODDZIAŁ GDAŃSK

tel. /+48/ 55 625 51 21

fax /+48/ 55 625 51 22

### ODDZIAŁ RUMIA

tel. /+48/ 58 679 34 15

fax /+48/ 55 625 51 25

### ODDZIAŁ TYCHY

tel. /+48/ 32 787 52 88

fax /+48/ 55 625 51 38

### ODDZIAŁ OLSZTYN

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

### ODDZIAŁ WARSZAWA

tel. /+48/ 22 468 86 97

fax /+48/ 55 625 51 32

### BIURO HANDLOWE WROCŁAW

tel. /+48/ 782 838 000

fax /+48/ 55 625 51 35

### BIURO HANDLOWE KIELCE

tel. /+48/ 885 995 501

fax /+48/ 55 625 51 01

### BIURO HANDLOWE KRAKÓW

tel. /+48/ 885 995 019

fax /+48/ 55 625 51 01

### BIURO HANDLOWE OPOLE

tel. /+48/ 885 995 011

fax /+48/ 55 625 51 01

### BIURO HANDLOWE BYDGOSZCZ

tel. /+48/ 790 222 771

fax /+48/ 55 625 51 01