

### Central Loose Tube Cables

Universal – Indoor/Outdoor, Steel Wire Armor (SWA), Full Rodent Protection

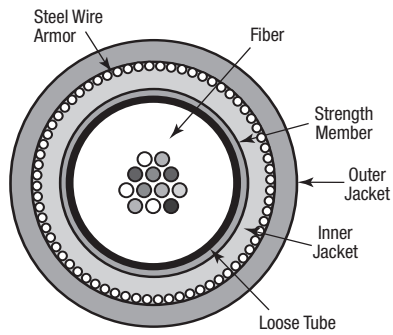
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

**GUWB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • SWA • A/I-DQ(ZN)HBH (R0.63vzk)**

Dry Construction • Double Black FRNC/LSNH Jacket																		
-30/70°C	6888	2100	1263.8	561.0	∅ 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.51	13.0	no	6500	50	-	130	260		



- GUWBx02 2
- GUWBx04 4
- GUWBx06 6
- GUWBx08 8
- GUWBx12 12
- GUWBx16 16
- GUWBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

## Multi Loose Tube Cables

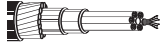
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

**GBW** • Loose Tubes\*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A-DQ2YB2Y (R1.0vzk)**

**Dry Construction • Double Black PE Jacket**

-30/70°C

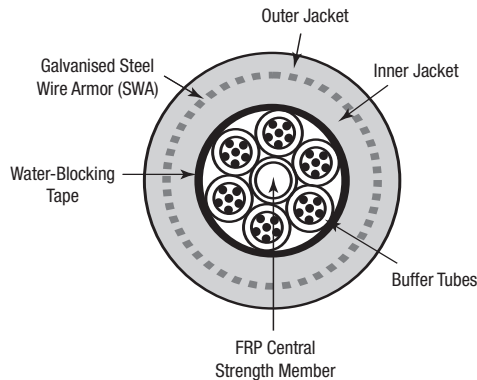


<b>GBWGx04</b> 4 (1x4)	6888	2100	1342.6	609.0	∅ 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
<b>GBWGx06</b> 6 (1x6)	13448	4100	2621.3	1189.0												
<b>GBWGx08</b> 8 (2x4)																
<b>GBWGx12</b> 12 (2x6)																
<b>GBWGx18</b> 18 (3x6)																
<b>GBWGx24</b> 24 (4x6)																
<b>GBWGx30</b> 30 (5x6)																
<b>GBWGx36</b> 36 (6x6)																
<b>GBWDx24</b> 24 (2x12)	6888	2100	1666.7	756.0	∅ 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
<b>GBWDx36</b> 36 (3x12)	13448	4100	3254.0	1476.0												
<b>GBWDx48</b> 48 (4x12)																
<b>GBWDx60</b> 60 (5x12)																
<b>GBWDx72</b> 72 (6x12)																
<b>GBWEx84</b> 84 (7x12)	6888	2100	1875.0	850.5	∅ 250 ± 15	0.10	2.5	–	0.67	17.0	3.0/4.3	8000	50	–	255	340
<b>GBWEx96</b> 96 (8x12)	13448	4100	3660.7	1660.5												
<b>GBWEx108</b> 108 (9x12)																
<b>GBWEx120</b> 120 (10x12)																
<b>GBWEx132</b> 132 (11x12)																
<b>GBWEx144</b> 144 (12x12)																
<b>GBWFMx16</b> 216 (18x12)	6888	2100	2777.8	1260.0	∅ 250 ± 15	0.10	2.5	–	0.83	21.0	2.7	8000	50	–	315	420
<b>GBWIMx92</b> 192 (8x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	0.83	21.0	3.0/6.0	8000	50	–	315	420
<b>GBWJMx88</b> 288 (12x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	1.00	25.5	3.0/10.5	8000	50	–	383	510
<b>GBWLMx32</b> 432 (18x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	1.02	26.0	2.7/3.7	8000	50	–	390	520

Color Code: see chart page 16.23

Loose tubes: 1. Red, 2. Green, rest of tubes White

Blind elements: Clear



Optical characteristics see page 16.21.

\* jelly-filled, non-dripping and silicone-free

## Multi Loose Tube Cables

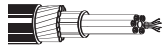
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

**GDW** • Loose Tubes\*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A-DF2YB2Y (R1.0vzk)**

**Filled Construction • Double Black PE Jacket**

-30/70°C

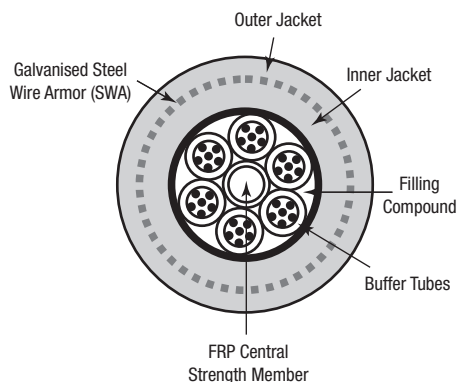


<b>GDWGx04</b> 4 (1x4)	6888	2100	1388.9	630.0	∅ 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
<b>GDWGx06</b> 6 (1x6)	13448	4100	2711.7	1230.0												
<b>GDWGx08</b> 8 (2x4)																
<b>GDWGx12</b> 12 (2x6)																
<b>GDWGx18</b> 18 (3x6)																
<b>GDWGx24</b> 24 (4x6)																
<b>GDWGx30</b> 30 (5x6)																
<b>GDWGx36</b> 36 (6x6)																
<b>GDWDx24</b> 24 (2x12)	6888	2100	1713.0	777.0	∅ 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
<b>GDWDx36</b> 36 (3x12)	13448	4100	3344.4	1517.0												
<b>GDWDx48</b> 48 (4x12)																
<b>GDWDx60</b> 60 (5x12)																
<b>GDWDx72</b> 72 (6x12)																
<b>GDWEx84</b> 84 (7x12)	6888	2100	1921.3	871.5	∅ 250 ± 15	0.10	2.5	–	0.66	16.8	3.0/4.3	8000	50	–	252	336
<b>GDWEx96</b> 96 (8x12)	13448	4100	3751.1	1701.5												
<b>GDWFx08</b> 108 (9x12)	6888	2100	2638.9	1197.0	∅ 250 ± 15	0.10	2.5	–	0.80	20.2	3.0/7.5	8000	50	–	303	404
<b>GDWFx20</b> 120 (10x12)	13448	4100	5152.2	2337.0												
<b>GDWFx32</b> 132 (11x12)																
<b>GDWFx44</b> 144 (12x12)																
<b>GDWMx16</b> 216 (18x12)	6888	2100	2824.1	1281.0	∅ 250 ± 15	0.10	2.5	–	0.81	20.5	2.7	8000	50	–	308	410
<b>GDWix92</b> 192 (8x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	0.81	20.5	3.0/6.0	8000	50	–	308	410
<b>GDWJx88</b> 288 (12x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	0.98	25.0	3.0/10.5	8000	50	–	375	500
<b>GDWLx32</b> 432 (18x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	1.00	25.5	2.7/3.7	8000	50	–	383	510

Color Code: see chart page 16.23

Loose tubes: 1. Red, 2. Green, rest of tubes White

Blind elements: Clear



Optical characteristics see page 16.21.

\* jelly-filled, non-dripping and silicone-free

### Multi Loose Tube Cables

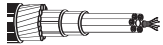
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

**GCW • Loose Tubes\*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • A/I-DQHBH (R1.0vzk)**

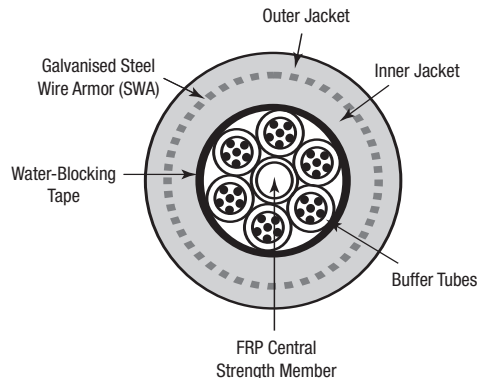
**Dry Construction • Double Black LSZH Jacket**

-30/70°C EN 50266-2-2  
EN 50267-2-2  
EN 50268-2



GCWGx04	4 (1x4)	6888	2100	1574.1	714.0	∅ 250 ± 15	0.07	1.9	-	0.54	13.6	2.0	8000	50	-	204	272
GCWGx06	6 (1x6)	13448	4100	3073.2	1394.0												
GCWGx08	8 (2x4)																
GCWGx12	12 (2x6)																
GCWGx18	18 (3x6)																
GCWGx24	24 (4x6)																
GCWGx30	30 (5x6)																
GCWGx36	36 (6x6)																
GCWDx24	24 (2x12)	6888	2100	1912.0	867.3	∅ 250 ± 15	0.10	2.5	-	0.61	15.5	2.7	8000	50	-	233	310
GCWDx36	36 (3x12)	13448	4100	3733.0	1693.3												
GCWDx48	48 (4x12)																
GCWDx60	60 (5x12)																
GCWDx72	72 (6x12)																
GCWEx84	84 (7x12)	6888	2100	2152.8	976.5	∅ 250 ± 15	0.10	2.5	-	0.67	17.0	3.0/4.3	8000	50	-	255	340
GCWEx96	96 (8x12)	13448	4100	4203.1	1906.5												
GCWEx108	108 (9x12)																
GCWEx120	120 (10x12)																
GCWEx132	132 (11x12)																
GCWEx144	144 (12x12)																
GCWFMx16	216 (18x12)	6888	2100	3101.9	1407.0	∅ 250 ± 15	0.10	2.5	-	0.83	21.0	2.7	8000	50	-	315	420
GCWix92	192 (8x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	-	0.83	21.0	3.0/6.0	8000	50	-	315	420
GCWJx88	288 (12x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	-	1.00	25.5	3.0/10.5	8000	50	-	383	510
GCWLx32	432 (18x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	-	1.02	26.0	2.7/3.7	8000	50	-	390	520

Color Code: see chart page 16.23  
Loose tubes: 1. Red, 2. Green, rest of tubes White  
Blind elements: Clear



Optical characteristics see page 16.21.  
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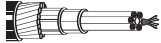
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

**GEW** • Loose Tubes\*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • SWA • **A/I-DFHBH (R1.0vzk)**

**Filled Construction • Double Black LSZH Jacket**

-30/70°C EN 50266-2-2  
EN 50267-2-2  
EN 50268-2

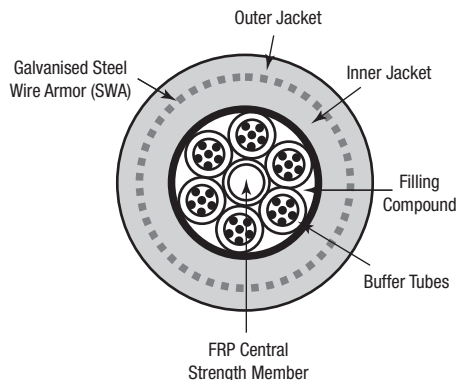


GEWGx04	4 (1x4)	6888	2100	1574.1	714.0	Ø 250 ± 15	0.07	1.9	-	0.53	13.5	2.0	8000	50	-	203	270
GEWGx06	6 (1x6)	13448	4100	3073.2	1394.0												
GEWGx08	8 (2x4)																
GEWGx12	12 (2x6)																
GEWGx18	18 (3x6)																
GEWGx24	24 (4x6)																
GEWGx30	30 (5x6)																
GEWGx36	36 (6x6)																
GEWDx24	24 (2x12)	6888	2100	1944.5	882.0	Ø 250 ± 15	0.10	2.5	-	0.61	15.5	2.7	8000	50	-	233	310
GEWDx36	36 (3x12)	13448	4100	3796.3	1722.0												
GEWDx48	48 (4x12)																
GEWDx60	60 (5x12)																
GEWDx72	72 (6x12)																
GEWEx84	84 (7x12)	6888	2100	2199.1	997.5	Ø 250 ± 15	0.10	2.5	-	0.66	16.8	3.0/4.3	8000	50	-	252	336
GEWEx96	96 (8x12)	13448	4100	4293.5	1947.5												
GEWFx08	108 (9x12)	6888	2100	2963.0	1344.0	Ø 250 ± 15	0.10	2.5	-	0.80	20.2	3.0/7.5	8000	50	-	303	404
GEWFx20	120 (10x12)	13448	4100	5784.9	2624.0												
GEWFx32	132 (11x12)																
GEWFx44	144 (12x12)																
GEWMx16	216 (18x12)	6888	2100	3101.9	1407.0	Ø 250 ± 15	0.10	2.5	-	0.81	20.6	2.7	8000	50	-	309	412
GEWix92	192 (8x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	-	0.81	20.5	3.0/6.0	8000	50	-	308	410
GEWJx88	288 (12x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	-	0.98	25.0	3.0/10.5	8000	50	-	375	500
GEWLx32	432 (18x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	-	1.00	25.5	2.7/3.7	8000	50	-	383	510

Color Code: see chart page 16.23

Loose tubes: 1. Red, 2. Green, rest of tubes White

Blind elements: Clear



Optical characteristics see page 16.21.

\* jelly-filled, non-dripping and silicone-free