

Multi Loose Tube Cables

Outdoor

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

GBA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DQ(ZN)2Y**

Dry Construction • Black PE (HDPE) Jacket

-30/70°C

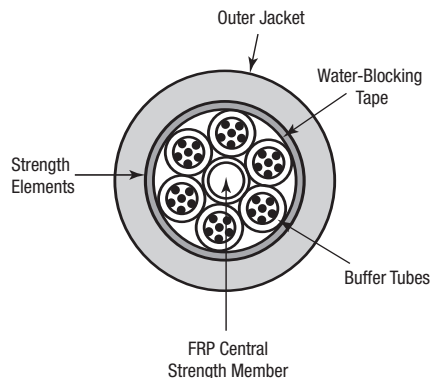


GBAGx04	4 (1x4)	6888	2100	333.3	151.2	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	-	155	206
GBAGx06	6 (1x6)	13448	4100	650.8	295.2												
GBAGx08	8 (2x4)																
GBAGx12	12 (2x6)																
GBAGx18	18 (3x6)																
GBAGx24	24 (4x6)																
GBAGx30	30 (5x6)																
GBAGx36	36 (6x6)																
GBADx24	24 (2x12)	6888	2100	458.3	207.9	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.48	12.2	2.7	3500	20	-	183	244
GBADx36	36 (3x12)	13448	4100	894.8	405.9												
GBADx48	48 (4x12)																
GBADx60	60 (5x12)																
GBADx72	72 (6x12)																
GBAEx84	84 (7x12)	6888	2100	588.0	266.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.8	3.0/4.3	4000	20	-	207	276
GBAEx96	96 (8x12)	13448	4100	1147.9	520.7												
GBAFx08	108 (9x12)	6888	2100	888.9	403.2	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.0	3.0/7.5	4000	20	-	255	340
GBAFx20	120 (10x12)	13448	4100	1735.5	787.2												
GBAFx32	132 (11x12)																
GBAFx44	144 (12x12)																
GBAMx16	216 (18x12)	6888	2100	1041.7	472.5	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.72	18.2	2.7	4000	20	-	273	364
		13448	4100	2033.7	922.5												
GBAlx92	192 (8x24)	6888	2100	1064.8	483.0	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.71	18.0	3.0/6.0	4000	20	-	270	360
		13448	4100	2078.9	943.0												
GBAJx88	288 (12x24)	6888	2100	1643.5	745.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.88	22.4	3.0/10.5	4000	20	-	336	448
GBALx32	432 (18x24)	6888	2100	1643.5	745.5	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.91	23.2	2.7/3.7	4000	20	-	348	464

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

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

GDA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)2Y**

Filled Construction • Black PE (HDPE) Jacket

-30/70°C

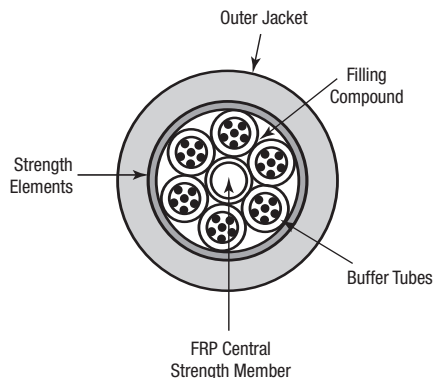


GDA Gx04	4 (1x4)	6888	2100	342.6	155.4	$\emptyset 250 \pm 15$	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	-	150	200
GDA Gx06	6 (1x6)	13448	4100	668.9	303.4												
GDA Gx08	8 (2x4)																
GDA Gx12	12 (2x6)																
GDA Gx18	18 (3x6)																
GDA Gx24	24 (4x6)																
GDA Gx30	30 (5x6)																
GDA Gx36	36 (6x6)																
GDA Dx24	24 (2x12)	6888	2100	490.7	222.6	$\emptyset 250 \pm 15$	0.10	2.5	Water-blocking Aramid Yarn	0.47	12.0	2.7	3500	20	-	180	240
GDA Dx36	36 (3x12)	13448	4100	958.1	434.6												
GDA Dx48	48 (4x12)																
GDA Dx60	60 (5x12)																
GDA Dx72	72 (6x12)																
GDA Ex84	84 (7x12)	6888	2100	629.6	285.6	$\emptyset 250 \pm 15$	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.6	3.0/4.3	4000	20	-	204	272
GDA Ex96	96 (8x12)	13448	4100	1229.3	557.6												
GDA Fx08	108 (9x12)	6888	2100	949.1	430.5	$\emptyset 250 \pm 15$	0.10	2.5	Water-blocking Aramid Yarn	0.66	16.8	3.0/7.5	4000	20	-	252	336
GDA Fx20	120 (10x12)	13448	4100	1853.0	840.5												
GDA Fx32	132 (11x12)																
GDA Fx44	144 (12x12)																
GDA Mx16	216 (18x12)	6888 13448	2100 4100	1134.3 2214.5	514.5 1004.5	$\emptyset 250 \pm 15$	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.5	2.7	4000	20	-	263	350
GDA Ix92	192 (8x24)	6888 13448	2100 4100	1041.7 2033.7	472.5 922.5	$\emptyset 250 \pm 15$	0.14	3.5	Water-blocking Aramid Yarn	0.69	17.6	3.0/6.0	4000	20	-	264	352
GDA Jx88	288 (12x24)	6888	2100	1736.1	787.5	$\emptyset 250 \pm 15$	0.14	3.5	Water-blocking Aramid Yarn	0.87	22.1	3.0/10.5	4000	20	-	332	442
GDA Lx32	432 (18x24)	6888	2100	1851.9	840.0	$\emptyset 250 \pm 15$	0.14	3.5	Water-blocking Aramid Yarn	0.89	22.5	2.7/3.7	4000	20	-	338	450

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 – Improved 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

GBR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DQ(ZN)B2Y**

Dry Construction • Black PE (HDPE) Jacket

-30/70°C

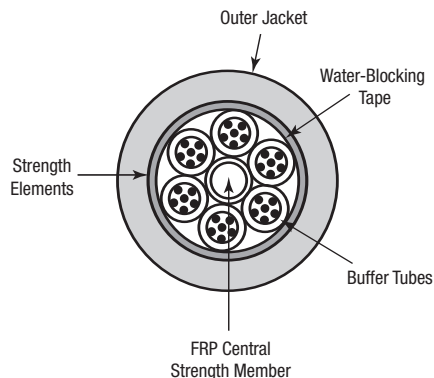


GBRGx04	4 (1x4)	6888	2100	486.1	220.5	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	-	177	236	
GBRGx06	6 (1x6)	13448	4100	949.1	430.5													
GBRGx08	8 (2x4)																	
GBRGx12	12 (2x6)																	
GBRGx18	18 (3x6)																	
GBRGx24	24 (4x6)																	
GBRGx30	30 (5x6)																	
GBRGx36	36 (6x6)																	
GBRDx24	24 (2x12)	6888	2100	625.0	283.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.54	13.7	2.7	3500	20	-	206	274	
GBRDx36	36 (3x12)	13448	4100	1220.2	553.5													
GBRDx48	48 (4x12)																	
GBRDx60	60 (5x12)																	
GBRDx72	72 (6x12)																	
GBREx84	84 (7x12)	6888	2100	787.0	357.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.60	15.3	3.0/4.3	4000	20	-	230	306	
GBREx96	96 (8x12)	13448	4100	1536.6	697.0													
GBRFx08	108 (9x12)	6888	2100	1088.0	493.5	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.73	18.5	3.0/7.5	4000	20	-	278	370	
GBRFx20	120 (10x12)	13448	4100	2124.1	963.5													
GBRFx32	132 (11x12)																	
GBRFx44	144 (12x12)																	
GBRMx16	216 (18x12)	6888	2100	1250.0	567.0	Ø 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.78	19.7	2.7	4000	20	-	296	394	
		13448	4100	2440.5	1107.0													
GBRlx92	192 (8x24)	6888	2100	1296.3	588.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.77	19.5	3.0/6.0	4000	20	-	293	390	
		13448	4100	2530.9	1148.0													
GBRJx88	288 (12x24)	6888	2100	1898.2	861.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	23.9	3.0/10.5	4000	20	-	359	478	
GBRLx32	432 (18x24)	6888	2100	1898.2	861.0	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.97	24.7	2.7/3.7	4000	20	-	371	494	

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 – Improved 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

GDR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)B2Y**

Filled Construction • Black PE (HDPE) Jacket

-30/70°C

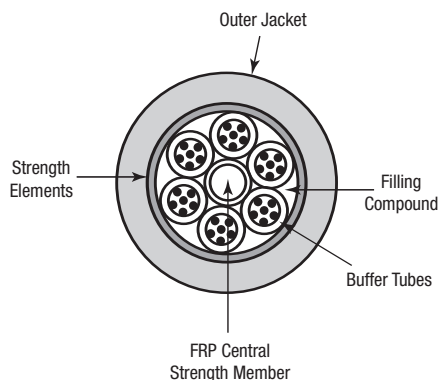


GDRGx04	4 (1x4)	6888	2100	476.9	216.3	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	-	173	230
GDRGx06	6 (1x6)	13448	4100	931.0	422.3												
GDRGx08	8 (2x4)																
GDRGx12	12 (2x6)																
GDRGx18	18 (3x6)																
GDRGx24	24 (4x6)																
GDRGx30	30 (5x6)																
GDRGx36	36 (6x6)																
GDRDx24	24 (2x12)	6888	2100	629.6	285.6	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.53	13.4	2.7	3500	20	-	201	268
GDRDx36	36 (3x12)	13448	4100	1229.3	557.6												
GDRDx48	48 (4x12)																
GDRDx60	60 (5x12)																
GDRDx72	72 (6x12)																
GDREx84	84 (7x12)	6888	2100	805.6	365.4	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.59	15.0	3.0/4.3	4000	20	-	225	300
GDREx96	96 (8x12)	13448	4100	1572.8	713.4												
GDRFx08	108 (9x12)	6888	2100	1134.3	514.5	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.72	18.2	3.0/7.5	4000	20	-	273	364
GDRFx20	120 (10x12)	13448	4100	2214.5	1004.5												
GDRFx32	132 (11x12)																
GDRFx44	144 (12x12)																
GDRMx16	216 (18x12)	6888 13448	2100 4100	1319.5 2576.1	598.5 1168.5	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.75	19.0	2.7	4000	20	-	285	380
GDRIx92	192 (8x24)	6888 13448	2100 4100	1226.9 2395.3	556.5 1086.5	∅ 250 ± 15	0.14	3.5									
GDRJx88	288 (12x24)	6888 13448	2100 4100	1944.5 3796.3	882.0 1722.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.93	23.5	3.0/10.5	4000	20	-	353	470
GDRLx32	432 (18x24)	6888 13448	2100 4100	2037.1 3977.1	924.0 1804.0	∅ 250 ± 15	0.14	3.5									

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, Corrugated Steel Tape Armor (CST)

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

GBD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A-DQ(ZN)2Y(SR)2Y**

Dry Construction • Double Black PE (HDPE) Jacket

-30/70°C

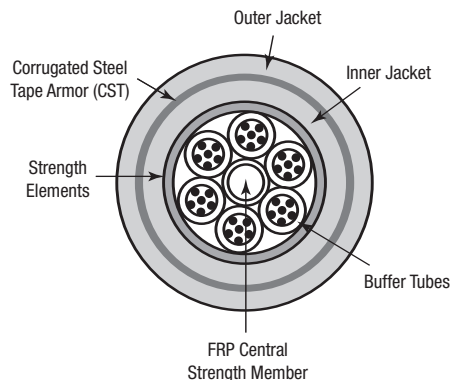


GBDGx04	4 (1x4)	6888	2100	838.0	380.1	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.52	13.2	2.0	3000	50	–	198	264
GBDGx06	6 (1x6)	13448	4100	1636.0	742.1												
GBDGx08	8 (2x4)																
GBDGx12	12 (2x6)																
GBDGx18	18 (3x6)																
GBDGx24	24 (4x6)																
GBDGx30	30 (5x6)																
GBDGx36	36 (6x6)																
GBDDx24	24 (2x12)	6888	2100	1046.3	474.6	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.60	15.2	2.7	3500	50	–	228	304
GBDDx36	36 (3x12)																
GBDDx48	48 (4x12)																
GBDDx60	60 (5x12)																
GBDDx72	72 (6x12)																
GBDEx84	84 (7x12)	6888	2100	1273.2	577.5	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.4	3.0/4.3	4000	50	–	261	348
GBDEx96	96 (8x12)																
GBDFx08	108 (9x12)	6888	2100	1555.6	705.6	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	–	308	410
GBDFx20	120 (10x12)																
GBDFx32	132 (11x12)																
GBDFx44	144 (12x12)																
GBDMx16	216 (18x12)	6888	2100	1759.3	798.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.85	21.5	2.7	4000	50	–	323	430
GBDLx92	192 (8x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.85	21.5	3.0/6.0	4000	50	–	323	430
GBDJx88	288 (12x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	3.0/10.5	4000	50	–	390	520
GBDLx32	432 (18x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.04	26.5	2.7/3.7	4000	50	–	398	530

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, Corrugated Steel Tape Armor (CST)

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

GDD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A-DF(ZN)2Y(SR)2Y**

Filled Construction • Double Black PE (HDPE) Jacket

-30/70°C

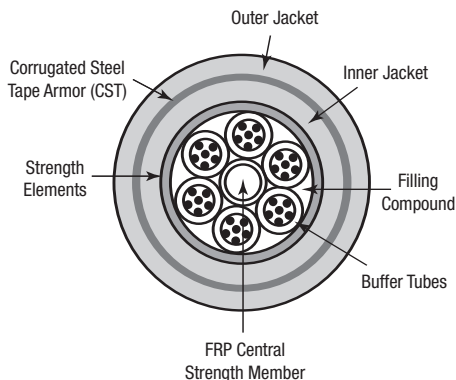


GDDGx04	4 (1x4)	6888	2100	851.9	386.4	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	-	195	260
GDDGx06	6 (1x6)	13448	4100	1663.2	754.4												
GDDGx08	8 (2x4)																
GDDGx12	12 (2x6)																
GDDGx18	18 (3x6)																
GDDGx24	24 (4x6)																
GDDGx30	30 (5x6)																
GDDGx36	36 (6x6)																
GDDx24	24 (2x12)	6888	2100	1083.3	491.4	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.59	15.0	2.7	3500	50	-	225	300
GDDx36	36 (3x12)																
GDDx48	48 (4x12)																
GDDx60	60 (5x12)																
GDDx72	72 (6x12)																
GDDEx84	84 (7x12)	6888	2100	1319.5	598.5	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.1	3.0/4.3	4000	50	-	257	342
GDDEx96	96 (8x12)																
GDDFx08	108 (9x12)	6888	2100	1745.4	791.7	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	-	308	410
GDDFx20	120 (10x12)																
GDDFx32	132 (11x12)																
GDDFx44	144 (12x12)																
GDDMx16	216 (18x12)	6888	2100	1990.8	903.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.83	21.0	2.7	4000	50	-	315	420
GDDIx92	192 (8x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.83	21.0	3.0/6.0	4000	50	-	315	420
GDDJx88	288 (12x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.00	25.5	3.0/10.5	4000	50	-	383	510
GDDLx32	432 (18x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	2.7/3.7	4000	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

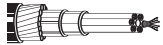
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

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

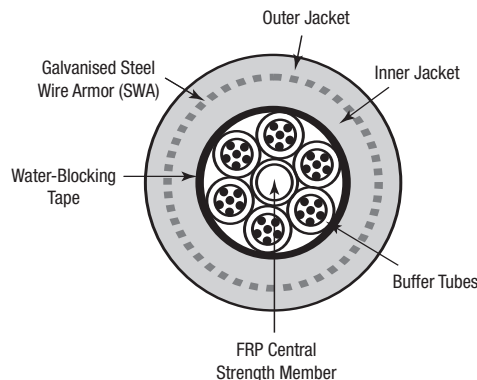


GBWGx04 4 (1x4)	6888	2100	1342.6	609.0	∅ 250 ± 15	0.07	1.9	-	0.53	13.5	2.0	8000	50	-	203	270
GBWGx06 6 (1x6)	13448	4100	2621.3	1189.0												
GBWGx08 8 (2x4)																
GBWGx12 12 (2x6)																
GBWGx18 18 (3x6)																
GBWGx24 24 (4x6)																
GBWGx30 30 (5x6)																
GBWGx36 36 (6x6)																
GBWDx24 24 (2x12)	6888	2100	1666.7	756.0	∅ 250 ± 15	0.10	2.5	-	0.61	15.5	2.7	8000	50	-	233	310
GBWDx36 36 (3x12)	13448	4100	3254.0	1476.0												
GBWDx48 48 (4x12)																
GBWDx60 60 (5x12)																
GBWDx72 72 (6x12)																
GBWEx84 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
GBWEx96 96 (8x12)	13448	4100	3660.7	1660.5												
GBWEx08 108 (9x12)	6888	2100	2592.6	1176.0	∅ 250 ± 15	0.10	2.5	-	0.80	20.2	3.0/7.5	8000	50	-	303	404
GBWEx20 120 (10x12)	13448	4100	5061.8	2296.0												
GBWEx32 132 (11x12)																
GBWEx44 144 (12x12)																
GBWMx16 216 (18x12)	6888	2100	2777.8	1260.0	∅ 250 ± 15	0.10	2.5	-	0.83	21.0	2.7	8000	50	-	315	420
GBWix92 192 (8x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	-	0.83	21.0	3.0/6.0	8000	50	-	315	420
GBWJx88 288 (12x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	-	1.00	25.5	3.0/10.5	8000	50	-	383	510
GBWLx32 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

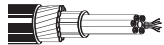
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

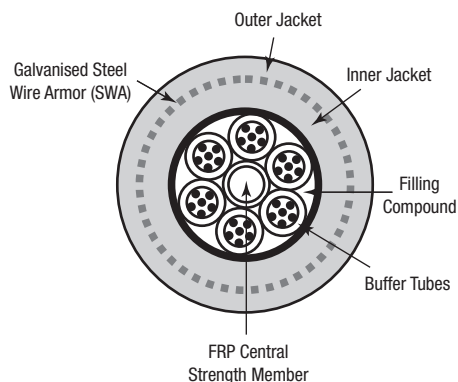


GDWGx04 4 (1x4)	6888	2100	1388.9	630.0	∅ 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
GDWGx06 6 (1x6)	13448	4100	2711.7	1230.0												
GDWGx08 8 (2x4)																
GDWGx12 12 (2x6)																
GDWGx18 18 (3x6)																
GDWGx24 24 (4x6)																
GDWGx30 30 (5x6)																
GDWGx36 36 (6x6)																
GDWDx24 24 (2x12)	6888	2100	1713.0	777.0	∅ 250 ± 15	0.10	2.5	–	0.61	15.5	2.7	8000	50	–	233	310
GDWDx36 36 (3x12)	13448	4100	3344.4	1517.0												
GDWDx48 48 (4x12)																
GDWDx60 60 (5x12)																
GDWDx72 72 (6x12)																
GDWEx84 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
GDWEx96 96 (8x12)	13448	4100	3751.1	1701.5												
GDWFx08 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
GDWFx20 120 (10x12)	13448	4100	5152.2	2337.0												
GDWFx32 132 (11x12)																
GDWFx44 144 (12x12)																
GDWMx16 216 (18x12)	6888	2100	2824.1	1281.0	∅ 250 ± 15	0.10	2.5	–	0.81	20.5	2.7	8000	50	–	308	410
GDWix92 192 (8x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	0.81	20.5	3.0/6.0	8000	50	–	308	410
GDWJx88 288 (12x24)	6888	2100	–	–	∅ 250 ± 15	0.14	3.5	–	0.98	25.0	3.0/10.5	8000	50	–	375	500
GDWLx32 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

Aerial – Outdoor

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

GALH • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DSF(L)2YT (Span = 50 m)**

Filled Construction • Black PE (HDPE) Jacket • Figure 8, Steel Messenger																		
-30/70°C			6888	2100	793.7	360.0	∅ 250 ± 15	0.059	1.5	Steel Messenger	0.380 0.790	9.8 20.0	1.7	4000	20	-	147	196

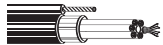


- GALHx04 4 (1x4)
- GALHx08 8 (2x4)
- GALHx12 12 (3x4)
- GALHx16 16 (4x4)
- GALHx20 20 (5x4)
- GALHx24 24 (6x4)

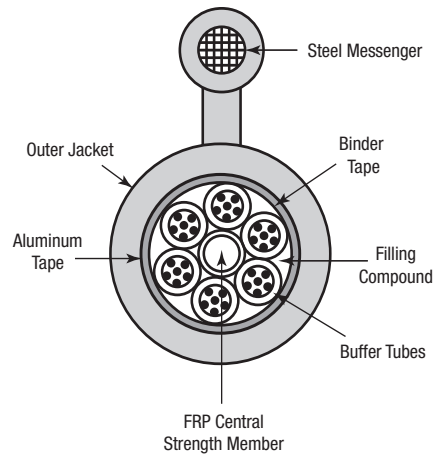
Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

GALD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DSF(L)2YT (Span = 50 m)**

Filled Construction • Black PE (HDPE) Jacket • Figure 8, Steel Messenger																		
-30/70°C			6888	2100	1091.3	495.0	∅ 250 ± 15	0.098	2.5	Steel Messenger	0.500 0.914	12.8 23.0	2.7	4000	20	-	192	256



- GALDx12 12 (1x12)
- GALDx24 24 (2x12)
- GALDx36 36 (3x12)
- GALDx48 48 (4x12)
- GALDx60 60 (5x12)
- GALDx72 72 (6x12)



Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

Optical characteristics see page 16.21.

Multi Loose Tube Cables

Aerial – Outdoor, All Dielectric

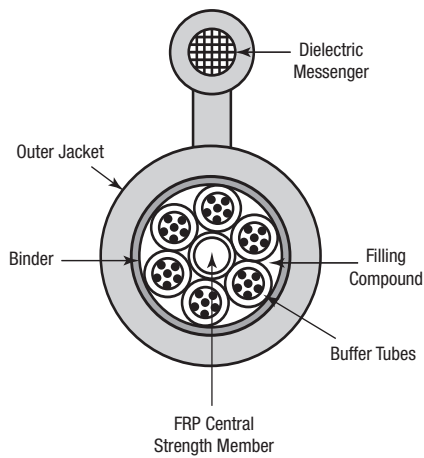
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

GAAD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A-DF(ZN)2YT (Span = 50 m)**

Filled Construction • Black PE (HDPE) Jacket • Figure 8, Dielectric Messenger																		
-30/70°C			6888	2100	910.5	413.0	∅ 250 ± 15	0.098	2.5	FRP Rod Messenger	0.50 0.95	12.7 24.0	2.7	4000	20	-	192	256



- GAADx12 12 (1x12)
- GAADx24 24 (2x12)
- GAADx36 36 (3x12)
- GAADx48 48 (4x12)
- GAADx60 60 (5x12)
- GAADx72 72 (6x12)



Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

Optical characteristics see page 16.21.

Multi Loose Tube Cables

Universal – Indoor/Outdoor

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

GCA • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DQ(ZN)H**

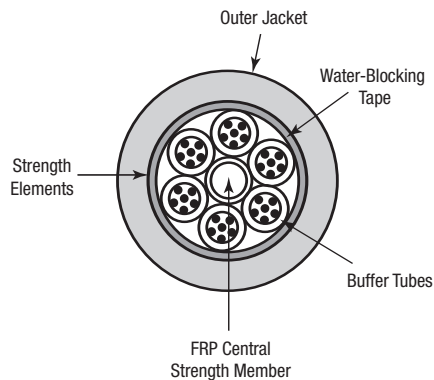
Dry Construction • Black LSZH Jacket

-30/70°C EN 50266-2-2
EN 50267-2-2
EN 50628-2



GCA Gx04	4 (1x4)	6888	2100	439.8	199.5	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	–	155	206
GCA Gx06	6 (1x6)	13448	4100	858.7	389.5												
GCA Gx08	8 (2x4)																
GCA Gx12	12 (2x6)																
GCA Gx18	18 (3x6)																
GCA Gx24	24 (4x6)																
GCA Gx30	30 (5x6)																
GCA Gx36	36 (6x6)																
GCA Dx24	24 (2x12)	6888	2100	588.0	266.7	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.48	12.2	2.7	3500	20	–	183	244
GCA Dx36	36 (3x12)	13448	4100	1147.9	520.7												
GCA Dx48	48 (4x12)																
GCA Dx60	60 (5x12)																
GCA Dx72	72 (6x12)																
GCA Ex84	84 (7x12)	6888	2100	736.1	333.9	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.8	3.0/4.3	4000	20	–	207	276
GCA Ex96	96 (8x12)	13448	4100	1437.2	651.9												
GCA Fx08	108 (9x12)	6888	2100	1074.1	487.2	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.0	3.0/7.5	4000	20	–	255	340
GCA Fx20	120 (10x12)	13448	4100	2097.0	951.2												
GCA Fx32	132 (11x12)																
GCA Fx44	144 (12x12)																
GCA Mx16	216 (18x12)	6888	2100	1250.0	567.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.72	18.2	2.7	4000	20	–	273	364
		13448	4100	2440.5	1107.0												
GCA Ix92	192 (8x24)	6888	2100	1273.2	577.5	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.71	18.0	3.0/6.0	4000	20	–	270	360
		13448	4100	2485.7	1127.5												
GCA Jx88	288 (12x24)	6888	2100	1921.3	871.5	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.88	22.4	3.0/10.5	4000	20	–	336	448
GCA Lx32	432 (18x24)	6888	2100	1944.5	882.0	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.91	23.2	2.7/3.7	4000	20	–	348	464

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

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

GEA • Loose Tubes*/PE Blind Elements are S-Z stranded Around the Central Element • Water-Blocked • **A/I-DF(ZN)H**

Filled Construction • Black LSZH Jacket

-30/70°C EN 50266-2-2
EN 50267-2-2
EN 50628-2

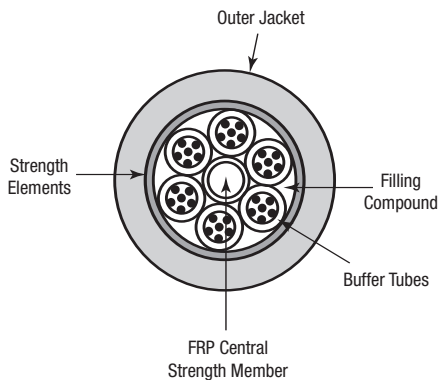


GEAGx04	4 (1x4)	6888	2100	449.1	203.7	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	-	150	200
GEAGx06	6 (1x6)	13448	4100	876.8	397.7												
GEAGx08	8 (2x4)																
GEAGx12	12 (2x6)																
GEAGx18	18 (3x6)																
GEAGx24	24 (4x6)																
GEAGx30	30 (5x6)																
GEAGx36	36 (6x6)																
GEADx24	24 (2x12)	6888	2100	620.4	281.4	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.47	12.0	2.7	3500	20	-	180	240
GEADx36	36 (3x12)	13448	4100	1211.2	549.4												
GEADx48	48 (4x12)																
GEADx60	60 (5x12)																
GEADx72	72 (6x12)																
GEAEx84	84 (7x12)	6888	2100	787.0	357.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.54	13.6	3.0/4.3	4000	20	-	204	272
GEAEx96	96 (8x12)	13448	4100	1536.6	697.0												
GEAFx08	108 (9x12)	6888	2100	1157.4	525.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.66	16.8	3.0/7.5	4000	20	-	252	336
GEAFx20	120 (10x12)	13448	4100	2259.7	1025.0												
GEAFx32	132 (11x12)																
GEAFx44	144 (12x12)																
GEAMx16	216 (18x12)	6888	2100	1342.6	609.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.5	2.7	4000	20	-	263	350
		13448	4100	2621.3	1189.0												
GEAlx92	192 (8x24)	6888	2100	1250.0	567.0	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.69	17.6	3.0/6.0	4000	20	-	264	352
		13448	4100	2440.5	1107.0												
GEAlx88	288 (12x24)	6888	2100	2013.9	913.5	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.87	22.1	3.0/10.5	4000	20	-	332	442
GEALx32	432 (18x24)	6888	2100	2129.6	966.0	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.89	22.5	2.7/3.7	4000	20	-	338	450

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, Improved 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

GCR • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DQ(ZN)BH**

Dry Construction • Black LSZH Jacket

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

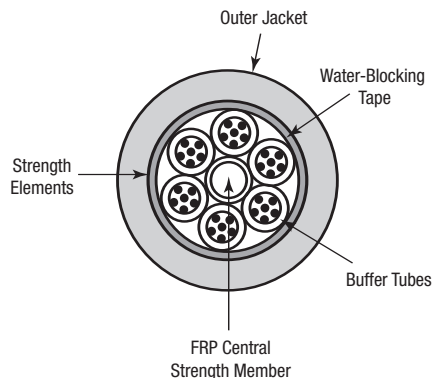


GCRGx04	4 (1x4)	6888	2100	597.2	270.9	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	-	177	236	
GCRGx06	6 (1x6)	13448	4100	1166.0	528.9													
GCRGx08	8 (2x4)																	
GCRGx12	12 (2x6)																	
GCRGx18	18 (3x6)																	
GCRGx24	24 (4x6)																	
GCRGx30	30 (5x6)																	
GCRGx36	36 (6x6)																	
GCRDx24	24 (2x12)	6888	2100	750.0	340.2	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.54	13.7	2.7	3500	20	-	206	274	
GCRDx36	36 (3x12)	13448	4100	1464.3	664.2													
GCRDx48	48 (4x12)																	
GCRDx60	60 (5x12)																	
GCRDx72	72 (6x12)																	
GCREx84	84 (7x12)	6888	2100	930.6	422.1	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.60	15.3	3.0/4.3	4000	20	-	230	306	
GCREx96	96 (8x12)	13448	4100	1816.8	824.1													
GCRFx08	108 (9x12)	6888	2100	1277.8	579.6	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.73	18.5	3.0/7.5	4000	20	-	278	370	
GCRFx20	120 (10x12)	13448	4100	2494.7	1131.6													
GCRFx32	132 (11x12)																	
GCRFx44	144 (12x12)																	
GCRMx16	216 (18x12)	6888	2100	1481.5	672.0	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.78	19.7	2.7	4000	20	-	296	394	
		13448	4100	2892.4	1312.0													
GCRlx92	192 (8x24)	6888	2100	1481.5	672.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.77	19.5	3.0/6.0	4000	20	-	293	390	
		13448	4100	2892.4	1312.0													
GCRJx88	288 (12x24)	6888	2100	2129.6	966.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	23.9	3.0/10.5	4000	20	-	359	478	
GCRlx32	432 (18x24)	6888	2100	2129.6	966.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.97	24.7	2.7/3.7	4000	20	-	371	494	

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, Improved 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

GER • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • **A/I-DF(ZN)BH**

Filled Construction • Black LSZH Jacket

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

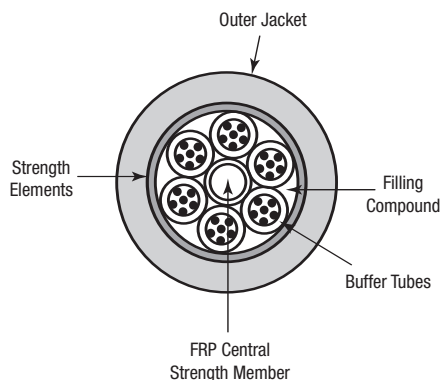


GERGx04	4 (1x4)	6888	2100	601.9	273.0	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	–	173	230
GERGx06	6 (1x6)	13448	4100	1175.1	533.0												
GERGx08	8 (2x4)																
GERGx12	12 (2x6)																
GERGx18	18 (3x6)																
GERGx24	24 (4x6)																
GERGx30	30 (5x6)																
GERGx36	36 (6x6)																
GERDx24	24 (2x12)	6888	2100	777.8	352.8	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.53	13.4	2.7	3500	20	–	201	268
GERDx36	36 (3x12)	13448	4100	1518.5	688.8												
GERDx48	48 (4x12)																
GERDx60	60 (5x12)																
GERDx72	72 (6x12)																
GEREx84	84 (7x12)	6888	2100	967.6	438.9	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.59	15.0	3.0/4.3	4000	20	–	225	300
GEREx96	96 (8x12)	13448	4100	1889.1	856.9												
GERFx08	108 (9x12)	6888	2100	1333.3	604.8	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.72	18.2	3.0/7.5	4000	20	–	273	364
GERFx20	120 (10x12)	13448	4100	2603.2	1180.8												
GERFx32	132 (11x12)																
GERFx44	144 (12x12)																
GERMx16	216 (18x12)	6888	2100	1527.8	693.0	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.75	19.0	2.7	4000	20	–	285	380
		13448	4100	2982.8	1353.0												
GERIx92	192 (8x24)	6888	2100	1435.2	651.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.75	19.0	3.0/6.0	4000	20	–	285	380
		13448	4100	2802.0	1271.0												
GERJx88	288 (12x24)	6888	2100	2222.2	1008.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.93	23.5	3.0/10.5	4000	20	–	353	470
GERLx32	432 (18x24)	6888	2100	2314.8	1050.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.94	24.0	2.7/3.7	4000	20	–	360	480

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, Corrugated Steel Tape Armor (CST)

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

GCD • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A/I-DQ(ZN)H(SR)H**

Dry Construction • Double Black LSZH Jacket

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

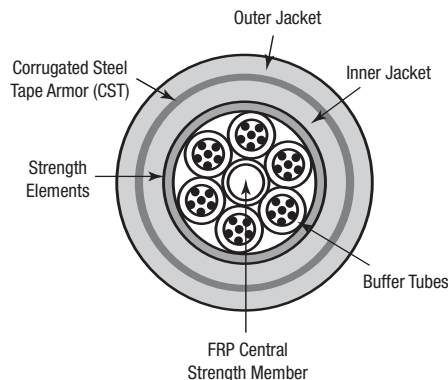


GCDGx04	4 (1x4)	6888	2100	1041.7	472.5	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.52	13.2	2.0	3000	50	-	198	264
GCDGx06	6 (1x6)	13448	4100	2033.7	922.5												
GCDGx08	8 (2x4)																
GCDGx12	12 (2x6)																
GCDGx18	18 (3x6)																
GCDGx24	24 (4x6)																
GCDGx30	30 (5x6)																
GCDGx36	36 (6x6)																
GCDx24	24 (2x12)	6888	2100	1296.3	588.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.60	15.2	2.7	3500	50	-	228	304
GCDx36	36 (3x12)																
GCDx48	48 (4x12)																
GCDx60	60 (5x12)																
GCDx72	72 (6x12)																
GCDEx84	84 (7x12)	6888	2100	1574.1	714.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.69	17.4	3.0/4.3	4000	50	-	261	348
GCDEx96	96 (8x12)																
GCDFx08	108 (9x12)	6888	2100	2055.6	932.4	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	-	308	410
GCDFx20	120 (10x12)																
GCDFx32	132 (11x12)																
GCDFx44	144 (12x12)																
GCDMx16	216 (18x12)	6888	2100	2268.5	1029.0	∅ 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.85	21.5	2.7	4000	50	-	323	430
GCDIx92	192 (8x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.85	21.5	3.0/6.0	4000	50	-	323	430
GCDJx88	288 (12x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	3.0/10.5	4000	50	-	390	520
GCDLx32	432 (18x24)	6888	2100	-	-	∅ 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.04	26.5	2.7/3.7	4000	50	-	398	530

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, Corrugated Steel Tape Armor (CST)

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

GED • Loose Tubes*/PE Blind Elements are S-Z Stranded Around the Central Element • Water-Blocked • CST • **A/I-DF(ZN)H(SRJ)H**

Filled Construction • Double Black LSZH Jacket

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

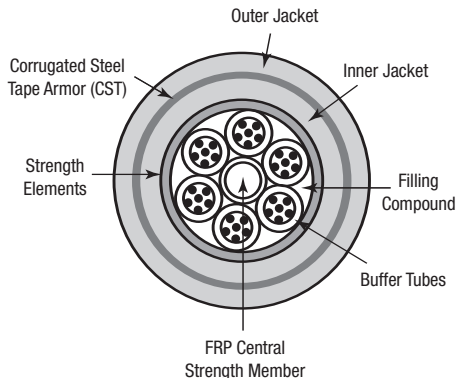


GEDGx04	4 (1x4)	6888	2100	1050.9	476.7	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	-	195	260
GEDGx06	6 (1x6)	13448	4100	2051.8	930.7												
GEDGx08	8 (2x4)																
GEDGx12	12 (2x6)																
GEDGx18	18 (3x6)																
GEDGx24	24 (4x6)																
GEDGx30	30 (5x6)																
GEDGx36	36 (6x6)																
GEDDx24	24 (2x12)	6888	2100	1324.1	600.6	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.59	15.0	2.7	3500	50	-	225	300
GEDDx36	36 (3x12)																
GEDDx48	48 (4x12)																
GEDDx60	60 (5x12)																
GEDDx72	72 (6x12)																
GEDEx84	84 (7x12)	6888	2100	1606.5	728.7	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.67	17.1	3.0/4.3	4000	50	-	257	342
GEDEx96	96 (8x12)																
GEDFx08	108 (9x12)	6888	2100	2101.9	953.4	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.81	20.5	3.0/7.5	4000	50	-	308	410
GEDFx20	120 (10x12)																
GEDFx32	132 (11x12)																
GEDFx44	144 (12x12)																
GEDMx16	216 (18x12)	6888	2100	2361.1	1071.0	Ø 250 ± 15	0.10	2.5	Water-blocking Aramid Yarn	0.83	21.0	2.7	4000	50	-	315	420
GEDIx92	192 (8x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	0.83	21.0	3.0/6.0	4000	50	-	315	420
GEDJx88	288 (12x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.00	25.5	3.0/10.5	4000	50	-	383	510
GEDLx32	432 (18x24)	6888	2100	-	-	Ø 250 ± 15	0.14	3.5	Water-blocking Aramid Yarn	1.02	26.0	2.7/3.7	4000	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

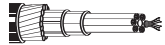
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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)

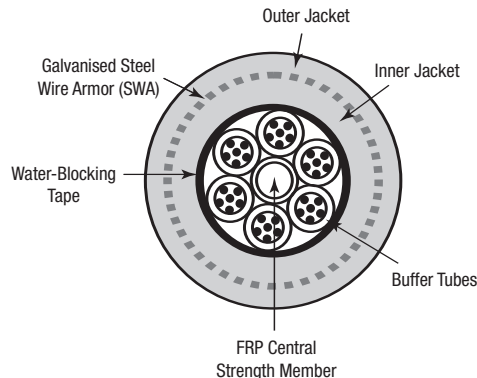
Dry Construction • Double Black LSZH Jacket

-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												
GCWFx08	108 (9x12)	6888	2100	2916.7	1323.0	∅ 250 ± 15	0.10	2.5	-	0.80	20.2	3.0/7.5	8000	50	-	303	404
GCWFx20	120 (10x12)	13448	4100	5694.5	2583.0												
GCWFx32	132 (11x12)																
GCWFx44	144 (12x12)																
GCWMx16	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.
* jelly-filled, non-dripping and silicone-free

Multi Loose Tube Cables

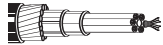
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

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

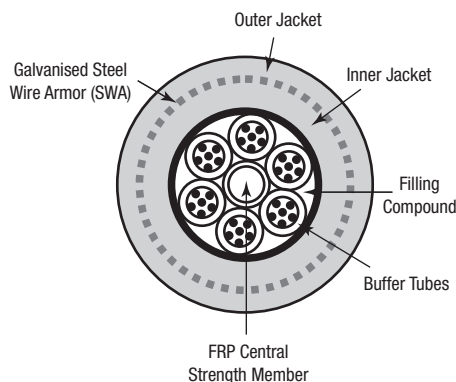


GEWGx04	4 (1x4)	6888	2100	1574.1	714.0	Ø 250 ± 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
GEWGx06	6 (1x6)	13448	4100	3073.2	1394.0												
GEWGx08	8 (2x4)																
GEWGx12	12 (2x6)																
GEWGx18	18 (3x6)																
GEWGx24	24 (4x6)																
GEWGx30	30 (5x6)																
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