

Interconnect Cables

Indoor

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

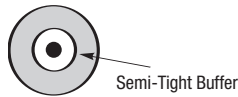
GIOK • Pigtails • Semi-Tight Buffer • Excellent Strippability • I-K

Dry Construction • Halogen-Free Jacket (Blue, Green, Green with Black Rings or Yellow)

-30/70°C	IEC 60332-2	6888	2100	3.1	1.4	Ø 245 ± 10				-			no	3	4	19		
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GIOK101	1	62.5/125 OM1 in Blue										0.04	0.9	25	35
GIOK201	1	50/125 OM2 in Green										0.04	0.9	25	35
GIOK301	1	50/125 OM3 in Green with Black rings										0.04	0.9	25	35
GIOK401	1	50/125 OM2e in Green										0.04	0.9	25	35
GIOK901	1	9/125 OS1 in Yellow										0.04	0.9	25	35



Strippability secondary coating = 100 cm

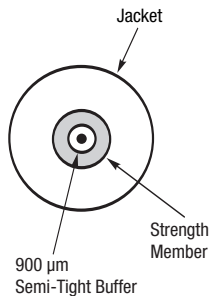
GIPS • Simplex • Semi-Tight Buffer • Excellent Strippability • I-W(ZN)H

Jelly-Filled Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	32.9	14.9	Ø 245 ± 10				Reinforced Aramid Yarn			no	200	10	128		
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GIPSxA1																			0.06	1.6	24	32
GIPSxB1																			0.07	1.8	27	36
GIPSxC1																			0.08	2.0	30	40
GIPSxD1																			0.09	2.4	36	48
GIPSxE1																			0.11	2.8	42	56
GIPSxF1																			0.12	3.0	45	60



Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Interconnect Cables

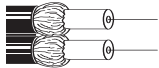
Indoor

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

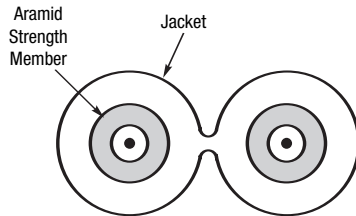
GIPS • Duplex • Figure 8 • Semi-Tight Buffer • Excellent Strippability • I-W(ZN)H

Jelly-Filled Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	65.3	29.6	∅ 245 ± 10	Reinforced Aramid Yarn			no	400	20	256					
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GIPSxA2											0.13	3.3					33	50
GIPSxB2											0.15	3.7					37	56
GIPSxC2											0.16	4.1					41	62
GIPSxD2											0.19	4.9					49	74
GIPSxE2											0.22	5.7					57	86
GIPSxF2											0.24	6.1					61	92

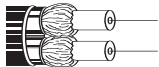


Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

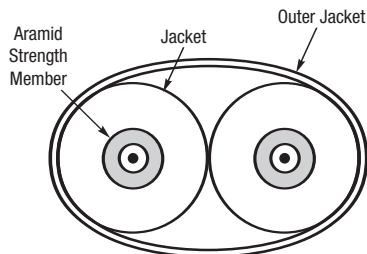
GIPK • Heavy Duplex • Semi-Tight Buffer • Excellent Strippability • I-K(ZN)HH

Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	115.3	52.3	∅ 245 ± 10	Reinforced Aramid Yarn			no	400	20	256					
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GIPKxA2											0.17	4.3					43	65
GIPKxB2											0.19	4.7					47	71
GIPKxC2											0.20	5.1					51	77
GIPKxD2											0.23	5.9					59	89
GIPKxE2											0.26	6.7					67	101
GIPKxF2											0.28	7.1					71	107



Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

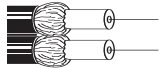
Interconnect Cables

Indoor

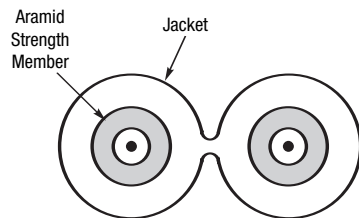
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size μm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

GIPT • Mini-Zip • Figure 8 • Tight Buffer • I-V(ZN)H

Dry Construction • Orange FRNC/LSNH Jacket																			
-30/70°C	IEC 60332-1		6888	2100	26.4	12.0	∅ 280 ± 15			Reinforced Aramid Yarn		no	400	20	19				



GIPTxA2												0.13	3.4					34	51
GIPTxB2												0.15	3.9					39	58



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Breakout Cables

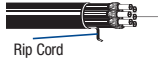
Indoor

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

GIBT • Tight Buffer • With Rip Cord • I-V(ZN)HH

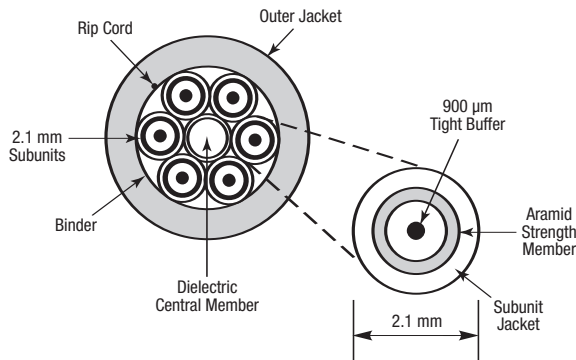
Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100			Ø 280 ± 15			Reinforced Aramid Yarn	0.08	2.1	Filler						
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Rip Cord

GIBTx02	2		115.7	52.5					2 + 2 BE	0.21	5.3		400	7.5	379	53	80
GIBTx04	4		143.5	65.1					CE + 4	0.24	6.2		400	7.5	507	62	93
GIBTx06	6		273.1	123.9					CE + 6	0.31	8.0		600	7.5	928	80	120
GIBTx08	8		356.5	161.7					CE + 8	0.37	9.4		800	7.5	1235	94	141
GIBTx12	12		402.8	182.7					3 + 9	0.41	10.5		1200	7.5	1424	105	158
GIBTx24	24		810.2	367.5					2 + 8 + 14	0.56	14.3		2400	7.5	2677	143	215



Color Code: see chart page 16.23

GIBK • Semi-Tight Buffer • With Rip Cord • Excellent Strippability • I-K(ZN)HH

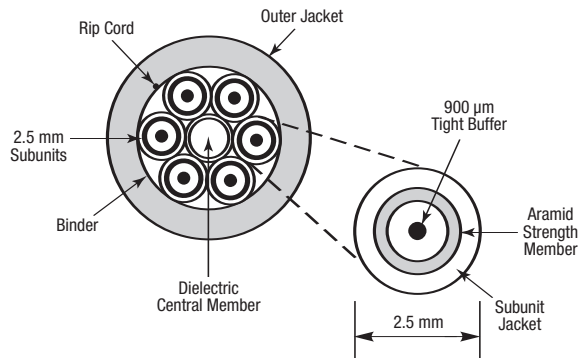
Dry Construction • Orange FRNC/LSNH Jacket

-5/55°C	IEC 60332-1	6888	2100	115.3	52.3	Ø 245 ± 10			Reinforced Aramid Yarn	0.10	2.5	Filler						
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Rip Cord

GIBKx02	2		120.4	54.6					Flat		6.30 x 3.8		400	7.5	382	-	-
GIBKx04	4		185.2	84.0					CE + 4	0.28	7.2		400	7.5	607	72	108
GIBKx06	6		338.0	153.3					CE + 6	0.37	9.4		600	7.5	1124	94	141
GIBKx08	8		430.6	195.3					CE + 8	0.43	10.9		800	7.5	1450	109	164
GIBKx12	12		513.9	233.1					3 + 9	0.46	11.8		1200	7.5	1675	118	177



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Mini-Breakout Cables (Distribution)

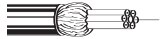
Indoor

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

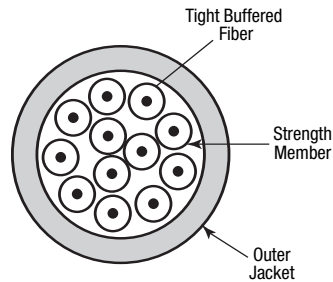
GIMT • Tight Buffer • I-V(ZN)H

Dry Construction • Orange FRNC /LSNH Jacket

-5/55°C	IEC 60332-2	6888	2100			Ø 280 ± 15			Reinforced Aramid Yarn		no			4				
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GIMTx02	2			74.1	33.5						0.16	4.0		400		227	40	60
GIMTx04	4			88.0	39.9						0.19	4.8		400		294	48	72
GIMTx06	6			106.5	48.3						0.21	5.3		450		339	53	80
GIMTx08	8			115.7	52.5						0.21	5.3		450		351	53	80
GIMTx12	12			185.2	84.0						0.28	7.0		500		619	70	105
GIMTx16	16			226.9	102.9						0.31	8.0		500		886	80	120
GIMTx24	24			263.9	119.7						0.35	9.0		600		1044	90	135



Available in multimode only.
Color Code: see chart page 16.23

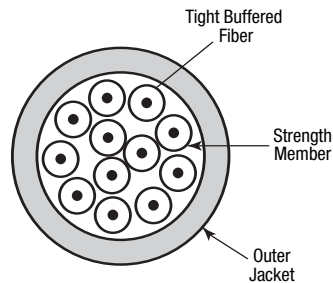
GIMK • Semi-Tight Buffer • I-K(ZN)H

Dry Construction • Orange FRNC /LSNH Jacket

-5/55°C	IEC 60332-2	6888	2100			Ø 245 ± 10			Reinforced Aramid Yarn		no			4				
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GIMKx02	2			88.0	39.9						0.16	4.0		400		235	40	60
GIMKx04	4			92.6	42.0						0.19	4.8		400		310	48	72
GIMKx06	6			106.5	48.3						0.21	5.3		450		339	53	80
GIMKx08	8			120.4	54.6						0.21	5.3		450		381	53	80



Available in multimode only.
Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Mini-Breakout Cables (Distribution)

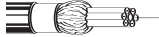
Universal – Indoor/Outdoor, Standard Rodent Protection

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

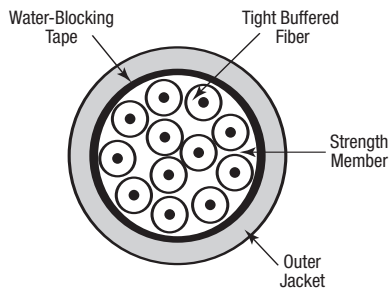
GUMT • Tight Buffer • A/I-VQ(ZN)H

Dry Construction • Orange FRNC/LSNH Jacket

-30/70°C	IEC 60332-2	6888	2100			∅ 280 ± 15				Longitudinal watertightness Swellable Glass Yarn (6)			no		4			
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GUMTx04	4			120.4	54.6						0.21	5.4		400		296	54	81
GUMTx06	6			138.0	63.0						0.23	5.9		450		347	59	89
GUMTx08	8			148.1	67.2						0.23	5.9		450		371	59	89
GUMTx12	12			208.3	94.5						0.30	7.6		500		622	76	114
GUMTx16	16			245.4	111.3						0.34	8.6		500		845	86	129
GUMTx24	24			300.9	136.5						0.38	9.6		600		1082	96	144



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Mini-Breakout Cables (Distribution)

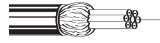
Universal – Indoor/Outdoor, Improved Rodent Protection

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

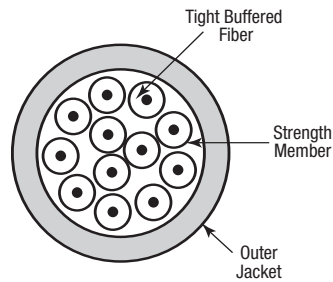
GUXT • Tight Buffer • A/I-VQ(ZN)BH

Dry Construction • Orange FRNC/LSNH Jacket

-30/70°C IEC 60332-2	6888	2100			Ø 280 ± 15				Longitudinal watertightness Swellable Glass Yarn		no			4				
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GUXTx04	4		203.7	92.4				0.28	7.0		2000		375	70	105
GUXTx06	6		236.1	107.1				0.29	7.3		2000		445	73	110
GUXTx08	8		259.3	117.6				0.29	7.3		2000		472	73	110
GUXTx12	12		351.9	159.6				0.37	9.4		3000		801	94	141
GUXTx24	24		560.2	254.1				0.42	10.6		4000		1243	106	159



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Central Loose Tube Cables

Universal – Indoor/Outdoor, Standard 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

GUSA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • A/I-DQ(ZN)H

Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C		13448	4100	334.4	151.7	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.23	5.8	no	700	10	550	58	87



- GUSAx02 2
- GUSAx04 4
- GUSAx06 6
- GUSAx08 8
- GUSAx12 12

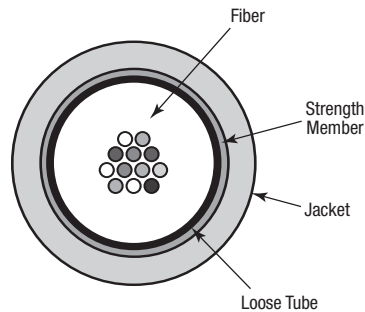
Color Code: see chart page 16.23

GUSB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • A/I-DQ(ZN)H

Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C		6888	2100	333.3	151.2	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.34	8.7	no	1400	15	1370	87	131



- GUSBx02 2
- GUSBx04 4
- GUSBx06 6
- GUSBx08 8
- GUSBx12 12
- GUSBx16 16
- GUSBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Central 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

GURA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)BH**

Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C		13448	4100	497.1	225.5	Ø 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.28	7.1	no	1400	10	755	71	107



- GURAx02 2
- GURAx04 4
- GURAx06 6
- GURAx08 8
- GURAx12 12

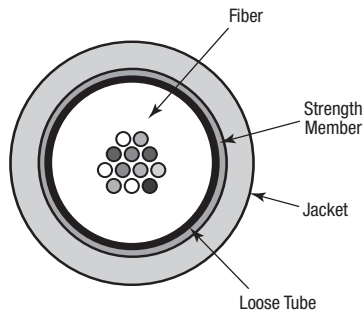
Color Code: see chart page 16.23

GURB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A/I-DQ(ZN)BH**

Dry Construction • Orange FRNC/LSNH Jacket																		
-30/70°C	IEC 60332-3C		6888	2100	481.5	218.4	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.40	10.2	no	4000	15	1680	102	153



- GURBx04 4
- GURBx06 6
- GURBx08 8
- GURBx12 12
- GURBx16 16
- GURBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Central Loose Tube Cables

Universal – Indoor/Outdoor, Corrugated Steel Tape Armor (CST), Full Rodent Protection

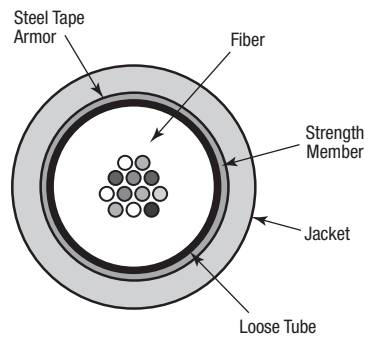
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending radii cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

GUCB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A/I-DQ(ZN)(SR)H**

Dry Construction • Single Black FRNC/LSNH Jacket																		
-30/70°C	EN 50266-2-2 EN 50267-2-2 EN 50268-2, EN 60331-25		6888	2100	685.2	310.8	∅ 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.42	10.6	no	2000	40	-	106	212



- GUCBx02 2
- GUCBx04 4
- GUCBx06 6
- GUCBx08 8
- GUCBx12 12
- GUCBx16 16
- GUCBx24 24



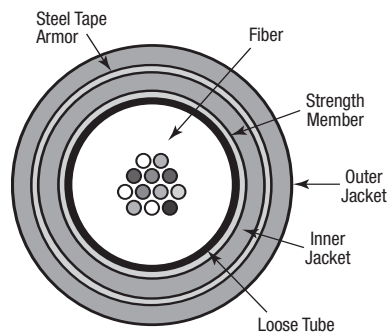
Color Code: see chart page 16.23

GUD • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A/I-DQ(ZN)H(SR)H**

Dry Construction • Double Black FRNC/LSNH Jacket																			
-30/70°C	EN 50266-2-2 EN 50267-2-2 EN 50268-2		6888	2100			∅ 250 ± 15			Longitudinal watertightness Swellable Glass Yarn									



- GUDAx02 2
- GUDAx04 4
- GUDAx06 6
- GUDAx08 8
- GUDAx10 10
- GUDAx12 12
- GUDBx16 16
- GUDBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

16 • Networking – Fiber

Central Loose Tube Cables

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

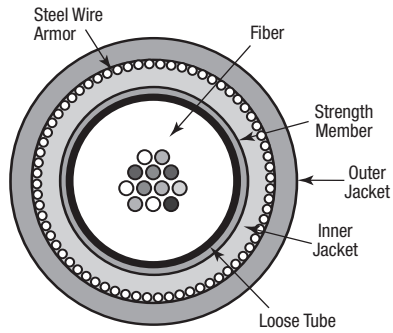
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

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

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**

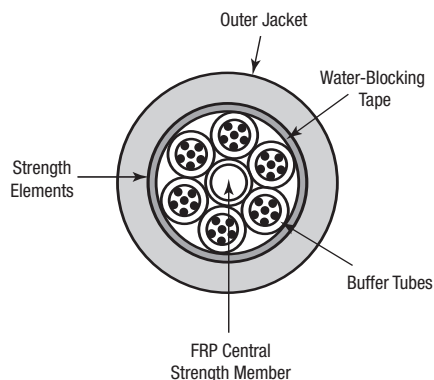
Dry Construction • Black LSZH Jacket

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



GCA Gx04	4 (1x4)	6888	2100	439.8	199.5	Ø 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	Ø 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	Ø 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	Ø 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	Ø 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	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	2485.7	1127.5												
GCA Jx88	288 (12x24)	6888	2100	1921.3	871.5	Ø 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	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

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

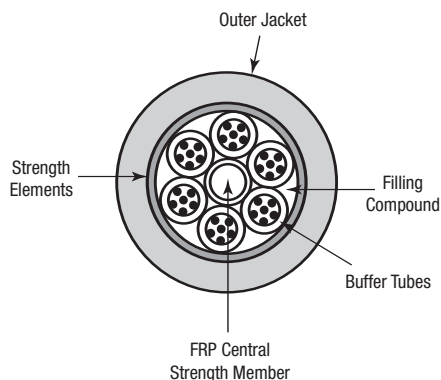


GEAGx04	4 (1x4)	6888	2100	449.1	203.7	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	–	150	200
GEAGx06	6 (1x6)	13448	4100	876.8	397.7												
GEAGx08	8 (2x4)																
GEAGx12	12 (2x6)																
GEAGx18	18 (3x6)																
GEAGx24	24 (4x6)																
GEAGx30	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

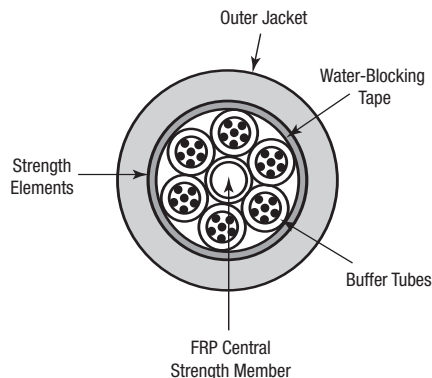


GCRGx04	4 (1x4)	6888	2100	597.2	270.9	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	-	177	236	
GCRGx06	6 (1x6)	13448	4100	1166.0	528.9													
GCRGx08	8 (2x4)																	
GCRGx12	12 (2x6)																	
GCRGx18	18 (3x6)																	
GCRGx24	24 (4x6)																	
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

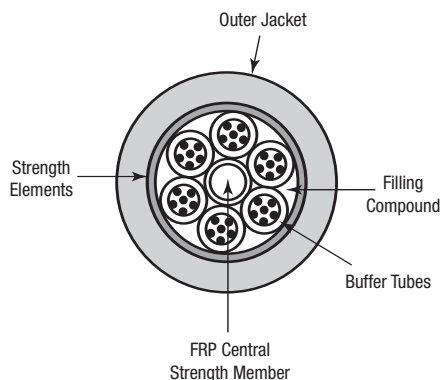


GERGx04	4 (1x4)	6888	2100	601.9	273.0	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	–	173	230
GERGx06	6 (1x6)	13448	4100	1175.1	533.0												
GERGx08	8 (2x4)																
GERGx12	12 (2x6)																
GERGx18	18 (3x6)																
GERGx24	24 (4x6)																
GERGx30	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**

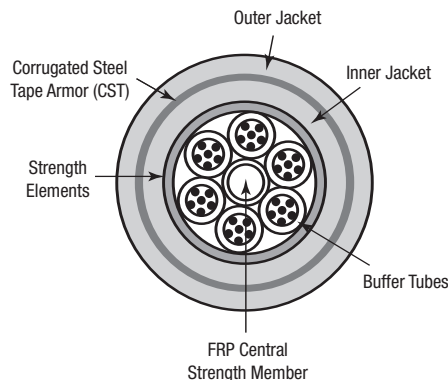
Dry Construction • Double Black LSZH Jacket

-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(SR)H**

Filled Construction • Double Black LSZH Jacket

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

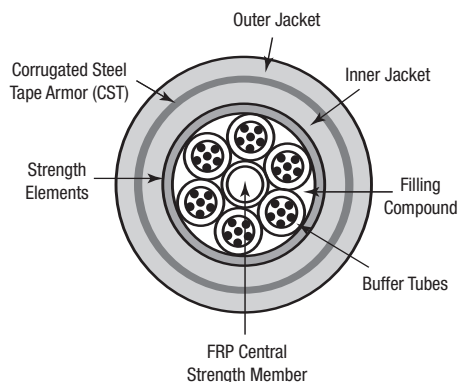


GEDGx04	4 (1x4)	6888	2100	1050.9	476.7	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	–	195	260
GEDGx06	6 (1x6)	13448	4100	2051.8	930.7												
GEDGx08	8 (2x4)																
GEDGx12	12 (2x6)																
GEDGx18	18 (3x6)																
GEDGx24	24 (4x6)																
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)																
GEDEFx08	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
GEDEFx20	120 (10x12)																
GEDEFx32	132 (11x12)																
GEDEFx44	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

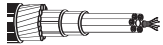
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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)

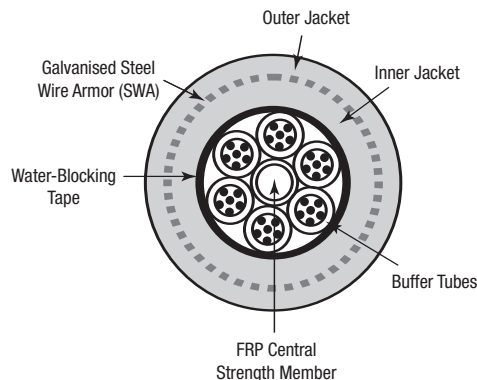
Dry Construction • Double Black LSZH Jacket

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

Multi Loose Tube Cables

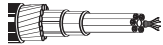
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

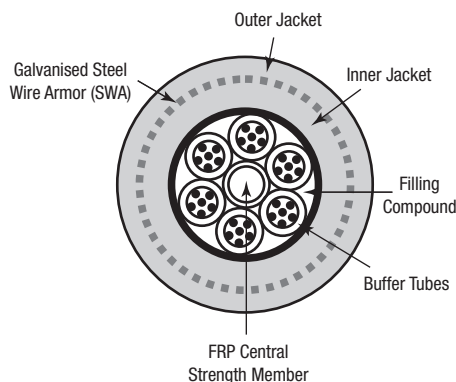


GEWGx04	4 (1x4)	6888	2100	1574.1	714.0	Ø 250 ± 15	0.07	1.9	-	0.53	13.5	2.0	8000	50	-	203	270
GEWGx06	6 (1x6)	13448	4100	3073.2	1394.0												
GEWGx08	8 (2x4)																
GEWGx12	12 (2x6)																
GEWGx18	18 (3x6)																
GEWGx24	24 (4x6)																
GEWGx30	30 (5x6)							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