

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

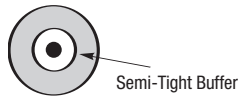
GIOK • Pigtails • Semi-Tight Buffer • Excellent Strippability • I-K

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



Semi-Tight Buffer

Strippability secondary coating = 100 cm

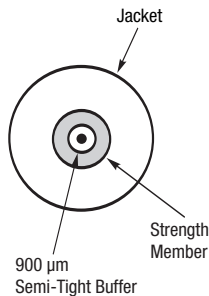
GIPS • Simplex • Semi-Tight Buffer • Excellent Strippability • I-W(ZN)H

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

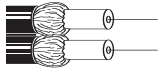
Indoor

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

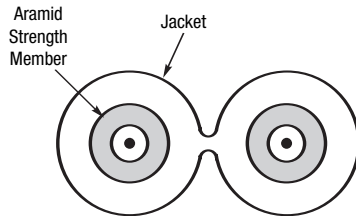
GIPS • Duplex • Figure 8 • Semi-Tight Buffer • Excellent Strippability • I-W(ZN)H

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
GIPSE2												0.22	5.7						57	86
GIPSF2												0.24	6.1						61	92

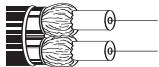


Strippability secondary coating = 100 cm
Color Code: see chart page 16.23

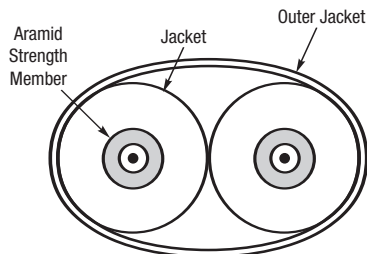
GIPK • Heavy Duplex • Semi-Tight Buffer • Excellent Strippability • I-K(ZN)HH

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
GIPKE2												0.26	6.7						67	101
GIPKF2												0.28	7.1						71	107



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

Optical characteristics see page 16.21.

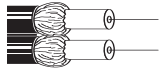
Interconnect Cables

Indoor

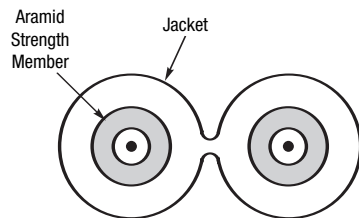
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size μm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

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	Ø 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

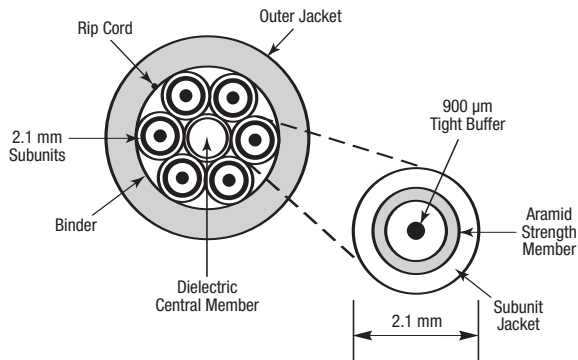
Dry Construction • Orange FRNC/LSNH Jacket

-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

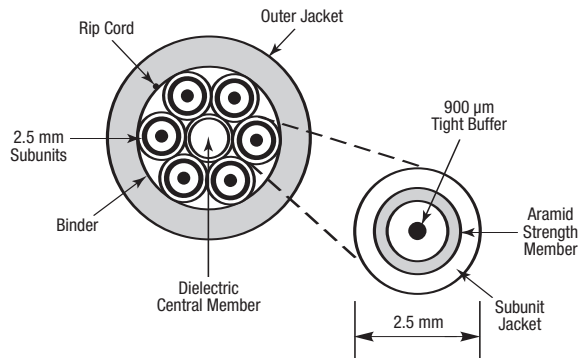
Dry Construction • Orange FRNC/LSNH Jacket

-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)

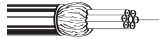
Indoor

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

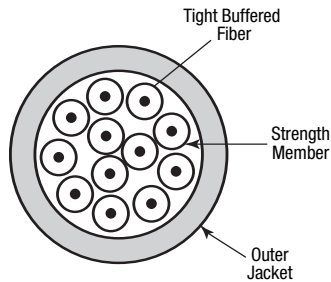
GIMT • Tight Buffer • I-V(ZN)H

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

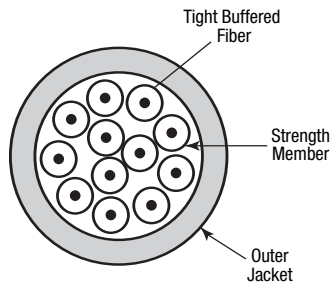
GIMK • Semi-Tight Buffer • I-K(ZN)H

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)

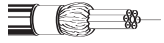
Universal – Indoor/Outdoor, Standard Rodent Protection

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

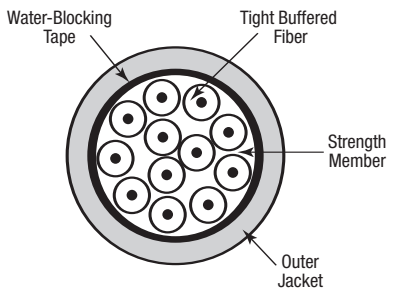
GUMT • Tight Buffer • A/I-VQ(ZN)H

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)

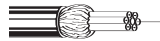
Universal – Indoor/Outdoor, Improved Rodent Protection

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

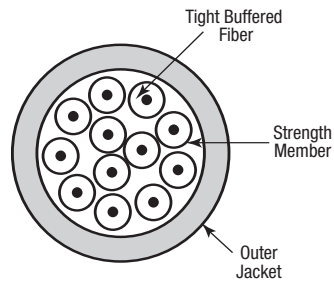
GUXT • Tight Buffer • A/I-VQ(ZN)BH

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.

Mini-Breakout Cables (Distribution)

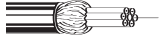
Special – Indoor/Outdoor

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

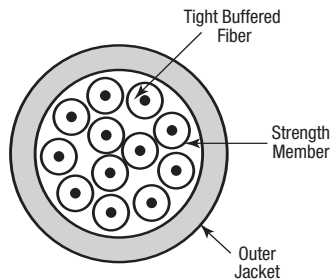
GMMT • Intex Mobile • Tight Buffer • Designed for Despooling and Respooling • A/I-VQ(ZN)11Y

Dry Construction • PUR Jacket (Orange or Black)

-30/70°C	IEC 60332-1	6888	2100			∅ 280 ± 15				Longitudinal watertightness Swellable Glass Yarn			no					
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GMMTx04	4			143.5	65.1						0.23	5.8		800	4	580	58	87
GMMTx06	6			175.9	79.8						0.25	6.3		950	4	725	63	95
GMMTx08	8			217.6	98.7						0.28	7.0		1100	4	890	70	105



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Breakout Kit Cables

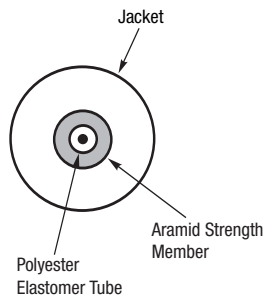
Universal – Indoor/Outdoor

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

GIPS • Simplex • With Furcation Tube (no Fiber)

Dry Construction • Orange PUR Jacket

-5/55°C	IEC 60332-2	6888	2100	42.5	19.3					Reinforced Aramid Yarn	0.11	2.8	no	110	-	128	28	42
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Color Code: see chart page 16.23

Central Loose Tube Cables

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

GOSA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)2Y**

Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C			13448	4100	334.4	151.7	∅ 250 ± 15	0.13	3.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.23	5.8	no	700	10	-	58	87



- GOSAx02 2
- GOSAx04 4
- GOSAx06 6
- GOSAx08 8
- GOSAx12 12

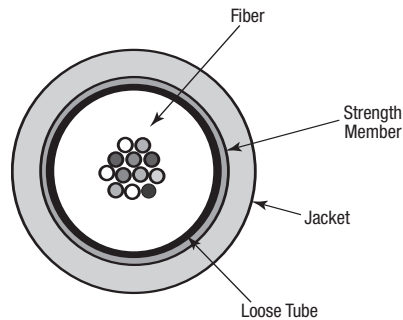
Color Code: see chart page 16.23

GOSB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • **A-DQ(ZN)2Y**

Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C			6888	2100	305.6	138.6	∅ 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (6)	0.34	8.7	no	1400	15	-	87	131



- GOSBx02 2
- GOSBx04 4
- GOSBx06 6
- GOSBx08 8
- GOSBx12 12
- GOSBx16 16
- GOSBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Central 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

GORA • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • A-DQ(ZN)B2Y

Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C			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



- GORAx02 2
- GORAx04 4
- GORAx06 6
- GORAx08 8
- GORAx12 12

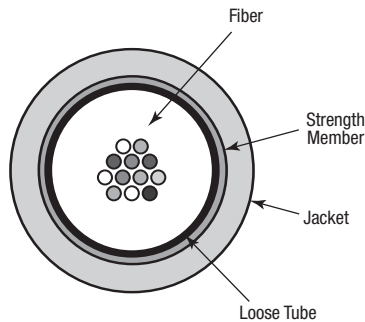
Color Code: see chart page 16.23

GORB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • A-DQ(ZN)B2Y

Dry Construction • Black PE (UV-resistant) Jacket																		
-30/70°C			6888	2100	444.4	201.6	Ø 250 ± 15	0.17	4.2	Longitudinal watertightness Swellable Glass Yarn (14)	0.40	10.2	no	4000	15	2200	102	153



- GORBx02 2
- GORBx04 4
- GORBx06 6
- GORBx08 8
- GORBx12 12
- GORBx16 16
- GORBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

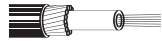
Central Loose Tube Cables

Outdoor – Fiber Reinforced Plastic Armor (FRP), Full Rodent Protection

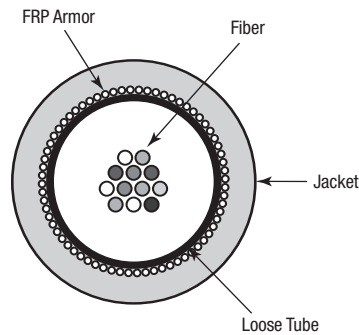
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size μm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

GOFB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Water-Blocked • FRP • **A-DQB2Y (FRP1.0)**

Dry Construction • Single Black PE Jacket																		
-30/70°C			6888	2100	352.7	160.0	Ø 250 ± 15	0.16	4.0	FRP Rods	0.354	9.0	no	4000	40	-	90	180



- GOFBx02 2
- GOFBx04 4
- GOFBx06 6
- GOFBx08 8
- GOFBx12 12
- GOFBx16 16
- GOFBx24 24



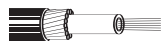
Color Code: see chart page 16.23

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

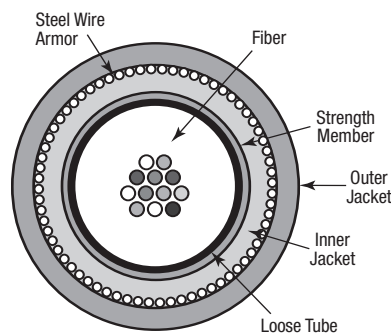
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size μm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending radii cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

GOWB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • SWA • **A-DQ(ZN)2YB2Y (R0.63vzk)**

Dry Construction • Double Black PE Jacket																		
-30/70°C			6888	2100	1029.7	467.0	Ø 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.512	13.0	no	6500	50	-	130	260



- GOWBx02 2
- GOWBx04 4
- GOWBx06 6
- GOWBx08 8
- GOWBx12 12
- GOWBx16 16
- GOWBx24 24



Color Code: see chart page 16.23

Optical characteristics see page 16.21.

Central Loose Tube Cables

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

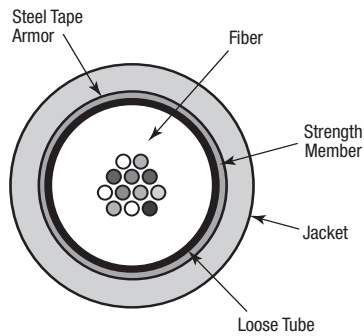
GOCB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A-DQ(ZN)(SR)2Y**

Dry Construction • Single Black PE Jacket

-30/70°C			6888	2100	518.5	235.2	∅ 250 ± 15	0.16	4.0	Longitudinal watertightness Swellable Glass Yarn	0.42	10.6	no	2000	40	-	106	212
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- GOCBx02 2
- GOCBx04 4
- GOCBx06 6
- GOCBx08 8
- GOCBx12 12
- GOCBx16 16
- GOCBx24 24

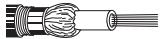


Color Code: see chart page 16.23

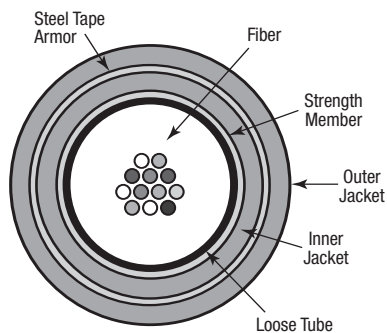
GOD • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • CST • **A-DQ(ZN)2Y(SR)2Y**

Dry Construction • Double Black PE Jacket

-30/70°C			6888	2100			∅ 250 ± 15			Longitudinal watertightness Swellable Glass Yarn								
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GODAx02 2					666.7	302.4			0.11	2.8		0.43	11.0	no	2000	40	-	110	220
GODAx04 4																			
GODAx06 6																			
GODAx08 8																			
GODAx12 12																			
GODBx16 16					822.3	373.0			0.16	4.0		0.496	12.6	no	2000	40	-	126	232
GODBx24 24																			



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

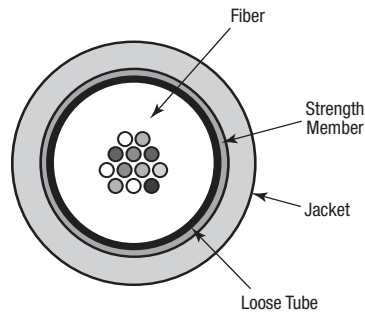
Color Code: see chart page 16.23

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

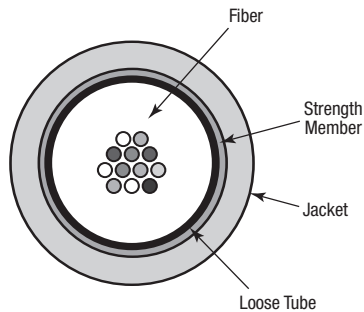
Color Code: see chart page 16.23

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

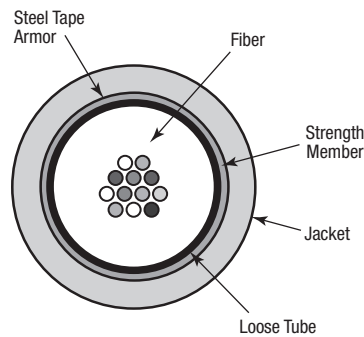
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending radii cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

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



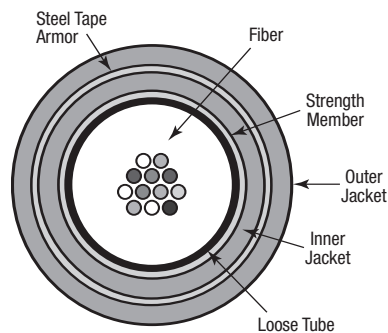
Color Code: see chart page 16.23

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.

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

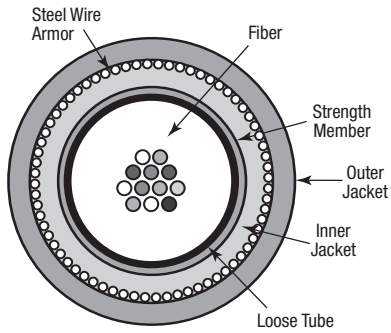
GUWB • Loose Tube (Jelly-Filled, Non-Dripping and Silicone-Free) • Longitudinal Watertightness • SWA • A/I-DQ(ZN)HBH (R0.63vzk)

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
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- 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

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

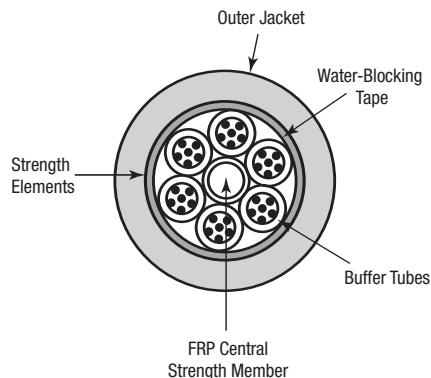


GBAGx04	4 (1x4)	6888	2100	333.3	151.2	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	-	155	206
GBAGx06	6 (1x6)	13448	4100	650.8	295.2												
GBAGx08	8 (2x4)																
GBAGx12	12 (2x6)																
GBAGx18	18 (3x6)																
GBAGx24	24 (4x6)																
GBAGx30	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

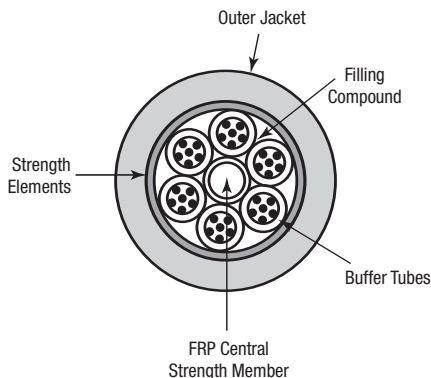


GDA Gx04	4 (1x4)	6888	2100	342.6	155.4	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	-	150	200
GDA Gx06	6 (1x6)	13448	4100	668.9	303.4												
GDA Gx08	8 (2x4)																
GDA Gx12	12 (2x6)																
GDA Gx18	18 (3x6)																
GDA Gx24	24 (4x6)																
GDA Gx30	30 (5x6)																
GDA Gx36	36 (6x6)																
GDA Dx24	24 (2x12)	6888	2100	490.7	222.6	∅ 250 ± 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	∅ 250 ± 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	∅ 250 ± 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	∅ 250 ± 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	∅ 250 ± 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	∅ 250 ± 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	∅ 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

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

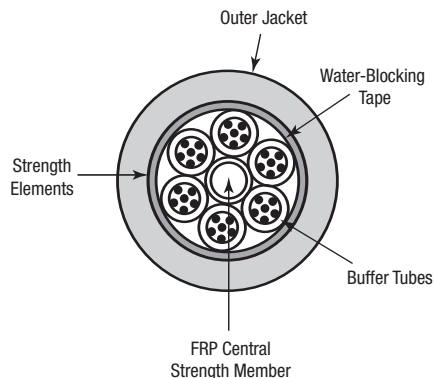


GBRGx04	4 (1x4)	6888	2100	486.1	220.5	$\emptyset 250 \pm 15$	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	-	177	236	
GBRGx06	6 (1x6)	13448	4100	949.1	430.5													
GBRGx08	8 (2x4)																	
GBRGx12	12 (2x6)																	
GBRGx18	18 (3x6)																	
GBRGx24	24 (4x6)																	
GBRGx30	30 (5x6)																	
GBRGx36	36 (6x6)																	
GBRDx24	24 (2x12)	6888	2100	625.0	283.5	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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

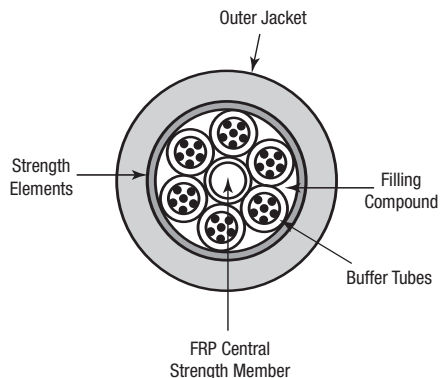


GDRGx04	4 (1x4)	6888	2100	476.9	216.3	Ø 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	-	173	230
GDRGx06	6 (1x6)	13448	4100	931.0	422.3												
GDRGx08	8 (2x4)																
GDRGx12	12 (2x6)																
GDRGx18	18 (3x6)																
GDRGx24	24 (4x6)																
GDRGx30	30 (5x6)																
GDRGx36	36 (6x6)																
GDRDx24	24 (2x12)	6888	2100	629.6	285.6	Ø 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	Ø 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	Ø 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	Ø 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	Ø 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.75	19.0	3.0/6.0	4000	20	-	285	380
GDRJx88	288 (12x24)	6888 13448	2100 4100	1944.5 3796.3	882.0 1722.0	Ø 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	Ø 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

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

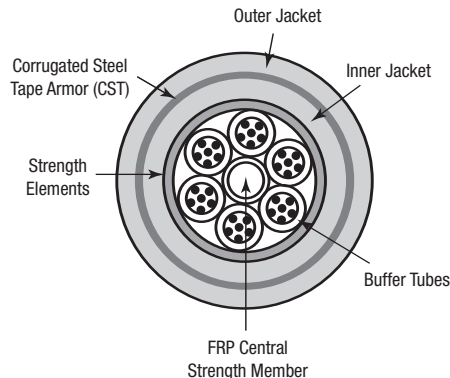


GBDGx04	4 (1x4)	6888	2100	838.0	380.1	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.52	13.2	2.0	3000	50	-	198	264
GBDGx06	6 (1x6)	13448	4100	1636.0	742.1												
GBDGx08	8 (2x4)																
GBDGx12	12 (2x6)																
GBDGx18	18 (3x6)																
GBDGx24	24 (4x6)																
GBDGx30	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

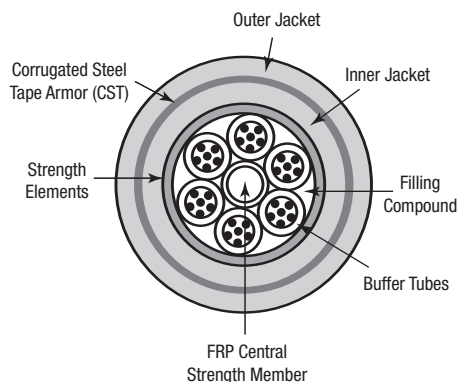


GDDGx04	4 (1x4)	6888	2100	851.9	386.4	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	-	195	260
GDDGx06	6 (1x6)	13448	4100	1663.2	754.4												
GDDGx08	8 (2x4)																
GDDGx12	12 (2x6)																
GDDGx18	18 (3x6)																
GDDGx24	24 (4x6)																
GDDGx30	30 (5x6)																
GDDGx36	36 (6x6)																
GDDx24	24 (2x12)	6888	2100	1083.3	491.4	Ø 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	Ø 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	Ø 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	Ø 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	-	-	Ø 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	-	-	Ø 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	-	-	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

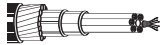
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

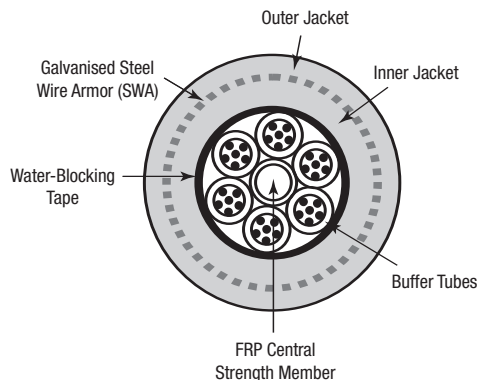


GBWGx04 4 (1x4)	6888	2100	1342.6	609.0	$\emptyset 250 \pm 15$	0.07	1.9	-	0.53	13.5	2.0	8000	50	-	203	270
GBWGx06 6 (1x6)	13448	4100	2621.3	1189.0												
GBWGx08 8 (2x4)																
GBWGx12 12 (2x6)																
GBWGx18 18 (3x6)																
GBWGx24 24 (4x6)																
GBWGx30 30 (5x6)																
GBWGx36 36 (6x6)																
GBWDx24 24 (2x12)	6888	2100	1666.7	756.0	$\emptyset 250 \pm 15$	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	$\emptyset 250 \pm 15$	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												
GBWEx108 108 (9x12)																
GBWEx120 120 (10x12)																
GBWEx132 132 (11x12)																
GBWEx144 144 (12x12)																
GBWFMx16 216 (18x12)	6888	2100	2777.8	1260.0	$\emptyset 250 \pm 15$	0.10	2.5	-	0.83	21.0	2.7	8000	50	-	315	420
GBWIMx92 192 (8x24)	6888	2100	-	-	$\emptyset 250 \pm 15$	0.14	3.5	-	0.83	21.0	3.0/6.0	8000	50	-	315	420
GBWJMx88 288 (12x24)	6888	2100	-	-	$\emptyset 250 \pm 15$	0.14	3.5	-	1.00	25.5	3.0/10.5	8000	50	-	383	510
GBWLMx32 432 (18x24)	6888	2100	-	-	$\emptyset 250 \pm 15$	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

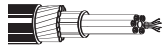
Outdoor – Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

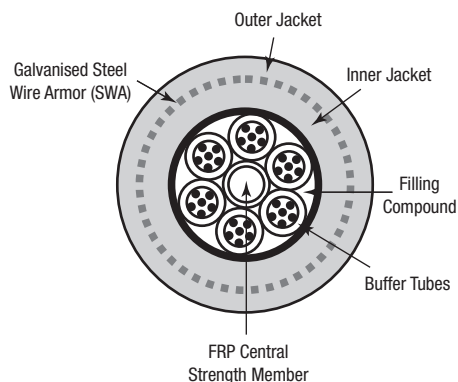


GDWGx04 4 (1x4)	6888	2100	1388.9	630.0	\emptyset 250 \pm 15	0.07	1.9	–	0.53	13.5	2.0	8000	50	–	203	270
GDWGx06 6 (1x6)	13448	4100	2711.7	1230.0												
GDWGx08 8 (2x4)																
GDWGx12 12 (2x6)																
GDWGx18 18 (3x6)																
GDWGx24 24 (4x6)																
GDWGx30 30 (5x6)																
GDWGx36 36 (6x6)																
GDWDx24 24 (2x12)	6888	2100	1713.0	777.0	\emptyset 250 \pm 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	\emptyset 250 \pm 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	\emptyset 250 \pm 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	\emptyset 250 \pm 15	0.10	2.5	–	0.81	20.5	2.7	8000	50	–	308	410
GDWix92 192 (8x24)	6888	2100	–	–	\emptyset 250 \pm 15	0.14	3.5	–	0.81	20.5	3.0/6.0	8000	50	–	308	410
GDWJx88 288 (12x24)	6888	2100	–	–	\emptyset 250 \pm 15	0.14	3.5	–	0.98	25.0	3.0/10.5	8000	50	–	375	500
GDWLx32 432 (18x24)	6888	2100	–	–	\emptyset 250 \pm 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

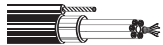


- GALHx04 4 (1x4)
- GALHx08 8 (2x4)
- GALHx12 12 (3x4)
- GALHx16 16 (4x4)
- GALHx20 20 (5x4)
- GALHx24 24 (6x4)

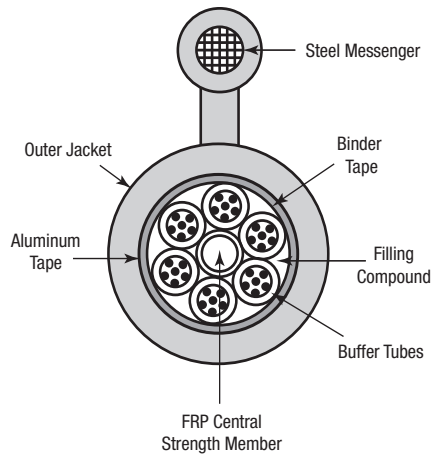
Color Code: see chart page 16.23
Optional: higher pulling tension available upon request.

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

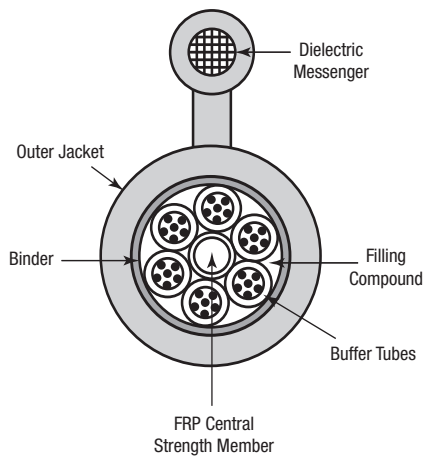
De- scription	Part No.	No. of Fibers	Standard Lengths		Standard Unit Weight		Fiber Size µm	Nom. Buffer/ Tube OD		Strength Members	Nominal OD		Central Element mm	Pulling Tension N	Crush Re- sistance kN/m	Energy kJ/m	Bending Radii Cable (mm)	
			ft.	m	lbs.	kg		inch	mm		inch	mm					static	dyna- mic

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

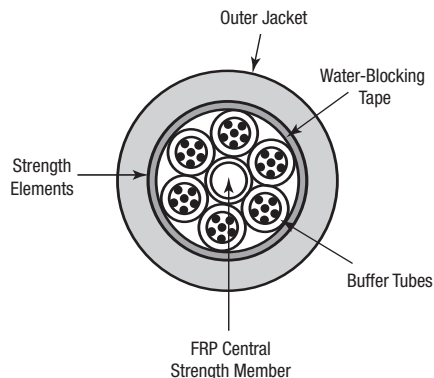


GCAx04	4 (1x4)	6888	2100	439.8	199.5	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.41	10.3	2.0	3000	20	–	155	206
GCAx06	6 (1x6)	13448	4100	858.7	389.5												
GCAx08	8 (2x4)																
GCAx12	12 (2x6)																
GCAx18	18 (3x6)																
GCAx24	24 (4x6)																
GCAx30	30 (5x6)																
GCAx36	36 (6x6)																
GCADx24	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
GCADx36	36 (3x12)	13448	4100	1147.9	520.7												
GCADx48	48 (4x12)																
GCADx60	60 (5x12)																
GCADx72	72 (6x12)																
GCAEx84	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
GCAEx96	96 (8x12)	13448	4100	1437.2	651.9												
GCAFx08	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
GCAFx20	120 (10x12)	13448	4100	2097.0	951.2												
GCAFx32	132 (11x12)																
GCAFx44	144 (12x12)																
GCAMx16	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												
GCAIx92	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												
GCAJx88	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
GCALx32	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

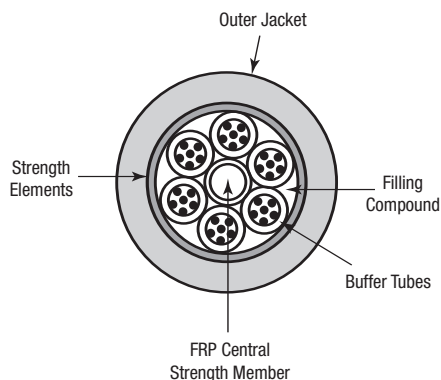


GEAGx04	4 (1x4)	6888	2100	449.1	203.7	∅ 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.39	10.0	2.0	3000	20	–	150	200
GEAGx06	6 (1x6)	13448	4100	876.8	397.7												
GEAGx08	8 (2x4)																
GEAGx12	12 (2x6)																
GEAGx18	18 (3x6)																
GEAGx24	24 (4x6)																
GEAGx30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

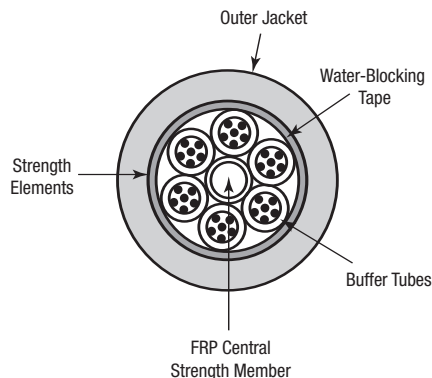


GCRGx04	4 (1x4)	6888	2100	597.2	270.9	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.46	11.8	2.0	3000	20	-	177	236	
GCRGx06	6 (1x6)	13448	4100	1166.0	528.9													
GCRGx08	8 (2x4)																	
GCRGx12	12 (2x6)																	
GCRGx18	18 (3x6)																	
GCRGx24	24 (4x6)													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

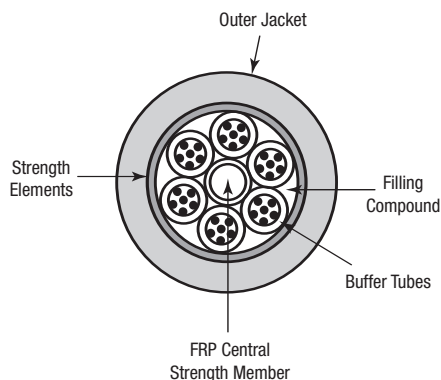


GERGx04	4 (1x4)	6888	2100	601.9	273.0	∅ 250 ± 15	0.07	1.9	Water-blocking Glass Yarn	0.45	11.5	2.0	3000	20	–	173	230
GERGx06	6 (1x6)	13448	4100	1175.1	533.0												
GERGx08	8 (2x4)																
GERGx12	12 (2x6)																
GERGx18	18 (3x6)																
GERGx24	24 (4x6)																
GERGx30	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 13448	2100 4100	1527.8 2982.8	693.0 1353.0	∅ 250 ± 15	0.10	2.5	Water-blocking Glass Yarn	0.75	19.0	2.7	4000	20	–	285	380
GERIx92	192 (8x24)	6888 13448	2100 4100	1435.2 2802.0	651.0 1271.0	∅ 250 ± 15	0.14	3.5	Water-blocking Glass Yarn	0.75	19.0	3.0/6.0	4000	20	–	285	380
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**

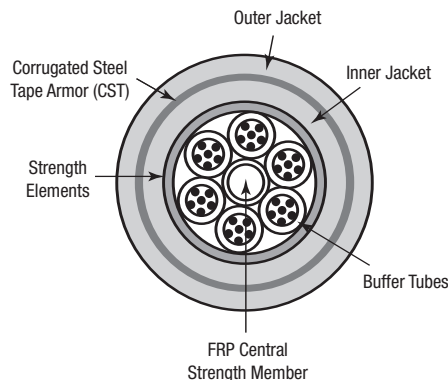
Dry Construction • Double Black LSZH Jacket

-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

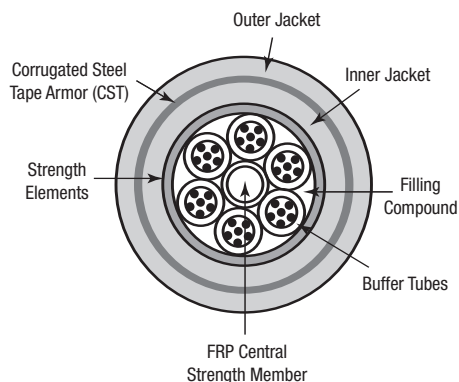


GEDGx04	4 (1x4)	6888	2100	1050.9	476.7	Ø 250 ± 15	0.07	1.9	Water-blocking Aramid Yarn	0.51	13.0	2.0	3000	50	–	195	260
GEDGx06	6 (1x6)	13448	4100	2051.8	930.7												
GEDGx08	8 (2x4)																
GEDGx12	12 (2x6)																
GEDGx18	18 (3x6)																
GEDGx24	24 (4x6)																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

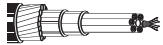
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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)

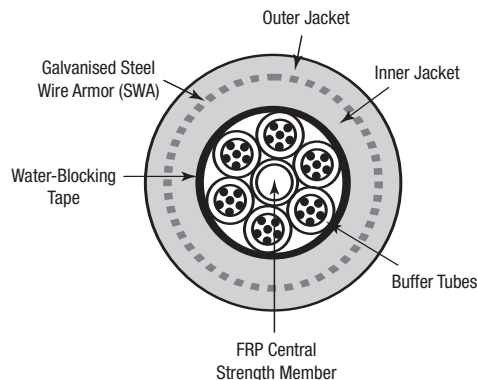
Dry Construction • Double Black LSZH Jacket

-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

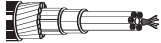
Universal – Indoor/Outdoor, Full Rodent Protection, Galvanised Steel Wire Armor (SWA)

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

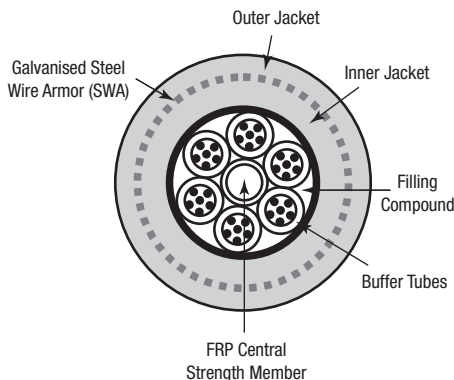


GEWGx04	4 (1x4)	6888	2100	1574.1	714.0	Ø 250 ± 15	0.07	1.9	-	0.53	13.5	2.0	8000	50	-	203	270
GEWGx06	6 (1x6)	13448	4100	3073.2	1394.0												
GEWGx08	8 (2x4)																
GEWGx12	12 (2x6)																
GEWGx18	18 (3x6)																
GEWGx24	24 (4x6)																
GEWGx30	30 (5x6)							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