

Fibre optic cables

CTC LSZH 1,2kN



www.ace-fibreoptic.com



CTC LSZH 1,2kN - Universal, Metallfree, Central Tube Cable.

Light-weight, non-metallic, universal central tube cable (indoor/outdoor) with small diameter, rodent protected, longitudinal water-protected, with Low Smoke Zero Halogen outersheath. Installation: by blowing or pulling, into conduits or on cable trays.

Characteristics	Properties	Unit
Product group	Universal cables	
Series	Glasvezelkabel Single Mode	
Type	CTC LSZH 1,2kN	
Test procedures	IEC 60794-1-2	
Application	Inside/outside	
Strain relief	Yes	
Optical Element	Loose tube, gel filled	
Fibre type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Material outer sheath	LSZH	
Colour outer sheath	Article dependant, see detail sheet	
Flame retardant	Acc. IEC 60332-1-2	
Halogen free (acc. EN 50267-2-2)	Yes	
UV resistant	Yes	
Cable metal free	Yes	
Longitudinal water blocking	Yes	
Radial water blocking	No	
Installation temperature	-10 / 50	°C
Operation temperature range	-40 / 70	°C
Transportation and storage temperature	-40 / 70	°C
Attenuation @ 1310 nm	0.36	dB/km
Attenuation @ 1550 nm	0.21	dB/km
Attenuation @ 1625 nm	0.24	dB/km
Construction and Colour codes	zie bijlagen	

Partnumber	Description	Outer diameter approx. (mm)	Net weight (Kg/km)	Bending radius after installation	Bending radius during installation	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
75050	4x SM G.657.A1	7	50	105	140	1600	800



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

CTC LSZH 1,2kN



www.ace-fibreoptic.com

Partnumber	Description	Outer diameter approx. (mm)	Net weight (Kg/km)	Bending radius after installation	Bending radius during installation	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
75063	6x SM G.657.A1	7	51	105	140	1600	800
75051	8x SM G.657.A1	7	50	105	140	1600	800
75052	12x SM G.657.A1	7	50	105	140	1600	800
75053	24x SM G.657.A1	7,6	59	115	150	1600	800

Copyright (c) TKF, 11-04-2013

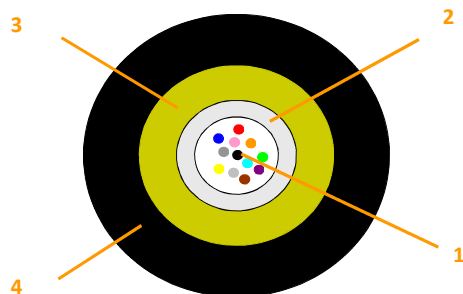
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

CTC LSZH

FO cable with central tube
Indoor/Outdoor application



Description:

- 1 Optical fibres
- 2 Central tube with 2, 4, 6, 8, 12, 16 or 24 fibres
- 3 Reinforcement of glass yarns
- 4 Outer sheath (LSZH)

Standard Colours:

Fibrenr. Group 1

- 1 Red
- 2 Green
- 3 Blue
- 4 Yellow
- 5 White
- 6 Grey
- 7 Brown
- 8 Violet
- 9 Turquoise
- 10 Black
- 11 Orange
- 12 Pink

Fibrenr. Group 2

- 13 Red +t
- 14 Green +t
- 15 Blue +t
- 16 Yellow +t
- 17 White +t
- 18 Grey +t
- 19 Brown +t
- 20 Violet +t
- 21 Turquoise +t
- 22 Natural
- 23 Orange +t
- 24 Pink +t

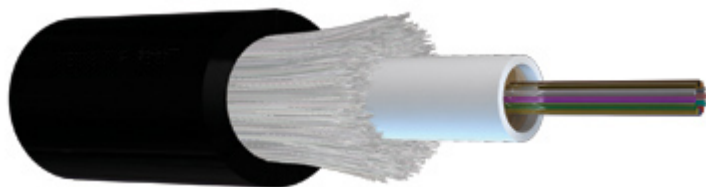
note +t: indicates a black tracer

Fibre optic cables

CTC LSZH 2,5kN



www.ace-fibreoptic.com



CTC LSZH 2,5kN - Universal, Metallfree, Central Tube Cable.

Light-weight, non-metallic, universal central tube cable (indoor/outdoor) with small diameter, rodent protected, longitudinal water-protected, with high pulling force and with Low Smoke Zero Halogen outersheath. Installation: by blowing or pulling, into conduits or on cable trays.

Characteristics	Properties	Unit
Product group	Universal cables	
Series	Glasvezelkabel Single Mode	
Type	CTC LSZH 2,5kN	
Test procedures	IEC 60794-1-2	
Application	Inside/outside	
Strain relief	Yes	
Optical Element	Loose tube, gel filled	
Fibre type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Material outer sheath	LSZH	
Colour outer sheath	Black	
Flame retardant	Acc. IEC 60332-1-2	
Halogen free (acc. EN 50267-2-2)	Yes	
UV resistant	Yes	
Cable metal free	Yes	
Longitudinal water blocking	Yes	
Radial water blocking	No	
Installation temperature	-10 / 50	°C
Operation temperature range	-40 / 70	°C
Transportation and storage temperature	-40 / 70	°C
Attenuation @ 1310 nm	0.36	dB/km
Attenuation @ 1550 nm	0.21	dB/km
Attenuation @ 1625 nm	0.24	dB/km
Construction and Colour codes	zie bijlagen	

Partnumber	Description	Outer diameter approx. (mm)	Net weight (Kg/km)	Bending radius after installation	Bending radius during installation	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
75069	4x SM G.657.A1	7,9	68	135	180	3500	1500



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

CTC LSZH 2,5kN



www.ace-fibreoptic.com

Partnumber	Description	Outer diameter approx. (mm)	Net weight (Kg/km)	Bending radius after installation	Bending radius during installation	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
75070	6x SM G.657.A1	7,9	68	135	180	3500	1500
75071	8x SM G.657.A1	7,9	69	140	185	3500	1500
75072	12x SM G.657.A1	7,9	69	145	190	3500	1500
75073	24x SM G.657.A1	8,5	78	145	190	3500	1500

Copyright (c) TKF, 11-04-2013

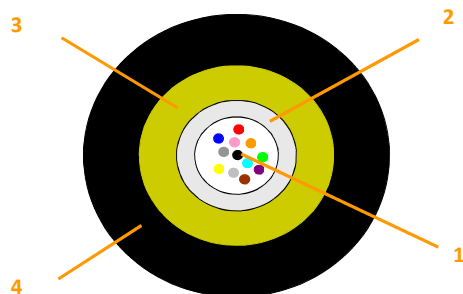
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

CTC LSZH

FO cable with central tube
Indoor/Outdoor application



Description:

- 1 Optical fibres
- 2 Central tube with 2, 4, 6, 8, 12, 16 or 24 fibres
- 3 Reinforcement of glass yarns
- 4 Outer sheath (LSZH)

Standard Colours:

Fibrenr. Group 1

- 1 Red
- 2 Green
- 3 Blue
- 4 Yellow
- 5 White
- 6 Grey
- 7 Brown
- 8 Violet
- 9 Turquoise
- 10 Black
- 11 Orange
- 12 Pink

Fibrenr. Group 2

- 13 Red +t
- 14 Green +t
- 15 Blue +t
- 16 Yellow +t
- 17 White +t
- 18 Grey +t
- 19 Brown +t
- 20 Violet +t
- 21 Turquoise +t
- 22 Natural
- 23 Orange +t
- 24 Pink +t

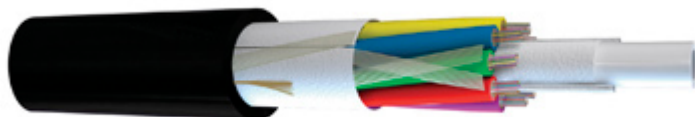
note +t: indicates a black tracer

Fibre optic cables

LTC LSZH



www.ace-fibreoptic.com



LTC LSZH - Universal, Metallfree, Loose Tube Cable.

Non-metallic, loose tube universal (indoor/outdoor) cable, longitudinal water-protected, with Low Smoke Zero Halogen outersheath. Installation: by blowing or pulling, into conduits or on cable trays.

Characteristics	Properties	Unit
Product group	Universal cables	
Series	Glasvezelkabel Single Mode	
Type	LTC LSZH	
Standardization	IEC 60794-3-10	
Test procedures	IEC 60794-1-2	
Application	Article dependant, see detail sheet	
Blow in	Yes	
Strain relief	Yes	
Optical Element	Loose tube, gel filled	
Fibre type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Strip method	1 Rip cord	
Material outer sheath	LSZH	
Colour outer sheath	Black	
Flame retardant	Acc. IEC 60332-1-2	
Halogen free	Article dependant, see detail sheet	
Halogen free (acc. EN 50267-2-2)	Yes	
UV resistant	Yes	
UV-protection	ISO 4892/2	
Cable metal free	Yes	
Longitudinal water blocking	Yes	
Longitudinal watertight construction	Super Absorbing Polymer	
Installation temperature	Article dependant, see detail sheet	°C
Operation temperature range	Article dependant, see detail sheet	°C
Transportation and storage temperature	-40 / 70	°C
Attenuation @ 1310 nm	0.35	dB/km
Attenuation @ 1550 nm	0.22	dB/km
Attenuation @ 1625 nm	0.25	dB/km
Construction and Colour codes	zie bijlagen	



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

LTC LSZH



www.ace-fibreoptic.com

Partnumber	Description	Outer diameter approx.	Net weight (Kg/km)	Bending radius after installation	Bending radius during	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
77500	4x SM G.657.A1 (2x2)	10	81	150	200	2000	1500
77501	6x SM G.657.A1 (3x2)	10	82	150	200	2000	1500
77502	8x SM G.657.A1(4x2)	10	82	150	200	2000	1500
77503	12x SM G.657.A1 (6x2)	10	84	150	200	2000	1500
77504	12x SM G.657.A1 (3x4)	10	82	150	200	2000	1500
77505	24x SM G.657.A1 (6x4)	10	84	150	200	2000	1500
77506	24x SM G.657.A1 (2x12)	10,1	80	150	200	1900	900
77507	36x SM G.657.A1 (6x6)	10	84	150	200	2000	1500
77508	36x SM G.657.A1 (3x12)	10,1	81	150	200	1900	900
77509	48x SM G.657.A1 (8x6)	11,4	108	170	230	2500	1500
77510	48x SM G.657.A1 (6x8)	10,9	100	160	220	2500	1500
77511	48x SM G.657.A1 (4x12)	10,1	83	150	200	1900	900
77512	60x SM G.657.A1 (5x12)	10,1	84	150	200	1900	900
77513	72x SM G.657.A1 (6x12)	10,9	101	160	220	2500	1500
77514	84x SM G.657.A1 (7x12)	11,7	118	175	235	3000	2000
74584	96x SM G.657.A1 (8x12)	12,6	129	185	250	3000	2000
77516	120x SM G.657.A1 (10x12)	14,1	165	210	280	3500	2000
77518	144x SM G.657.A1 (12x12)	15,9	204	240	320	3500	2000
74106	432x SM G.657.A1 ((6+12+18)x12)	22,0	367	330	440	2000	1500

Copyright (c) TKF, 11-04-2013

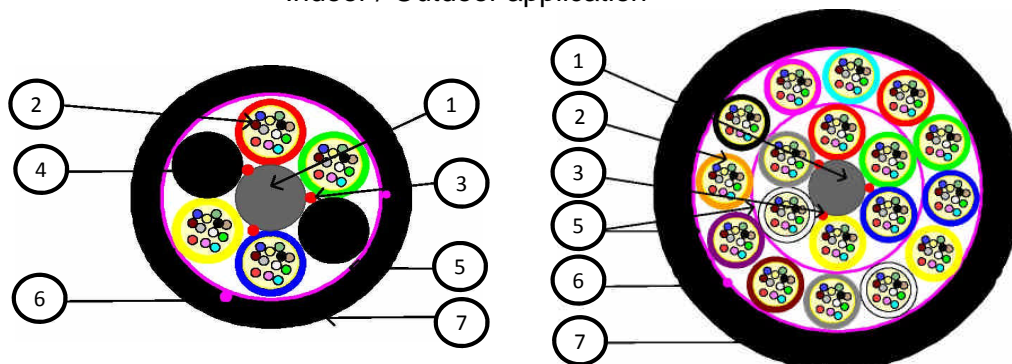
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

LTC LSZH

FO cable with stranded loose tubes
Indoor / Outdoor application



Description:

- 1 Centre element, FRP optional with over sheath
- 2 Loose tube with optical fibres (2, 4, 6, 8, 12 or 24 fibres per tube)
- 3 Water blocking yarns or tape
- 4 Filler
- 5 Water blocking tape
- 6 Ripcord (optional)
- 7 Outer sheath (LSZH)

Standard Colours:

Fibres		Tubes			
Group 1	Group 2	Layer 1	Layer 2	Layer 2	Layer 3
1 Red	13 Red +t	1 Red	1 Red	1 Red	1 Red
2 Green	14 Green +t	2 Green	2 Green	2 Green	2 Green
3 Blue	15 Blue +t	3 Blue	3 Blue	3 Blue	3 Blue
4 Yellow	16 Yellow +t	4 Yellow	4 Yellow	4 Yellow	4 Yellow
5 White	17 White +t	5 White	5 White	5 White	5 White
6 Grey	18 Grey +t	6 Grey	6 Grey	6 Grey	6 Grey
7 Brown	19 Brown +t	7 Brown	7 Brown	7 Brown	7 Brown
8 Violet	20 Violet +t	8 Violet	8 Violet	8 Violet	8 Violet
9 Turquoise	21 Turquoise +t	9 Orange	9 Orange	9 Orange	9 Orange
10 Black	22 Natural	10 Black	10 Black	10 Black	10 Black
11 Orange	23 Orange +t	11 Pink	11 Pink	11 Pink	11 Pink
12 Pink	24 Pink +t	12 Turquoise	12 Turquoise	12 Turquoise	12 Turquoise
			13 Red	13 Red	13 Red
			14 Green	14 Green	14 Green
			15 Blue	15 Blue	15 Blue
			16 Yellow	16 Yellow	16 Yellow

note +t: indicates a black tracer

Fibre optic cables

LTC HFFR



www.ace-fibreoptic.com



LTC HFFR - Halogen Free Flame Retardant.

Robust, non-metallic, loose tube universal (indoor/outdoor) cable, rodent-protected, longitudinal water-protected, with a Halogen Free Flame Retardant outersheath. This cable meets the requirements of IEC 332-3 (Flame-retardancy) and is therefore perfectly suitable for installation in tunnels, subway, ship, rail, public buildings, etc. Installation: by blowing or pulling, into conduits or on cable trays.

Characteristics	Properties	Unit
Product group	Universal cables	
Series	Glasvezelkabel Single Mode	
Type	LTC HFFR	
Test procedures	IEC 60794-1-2	
Application	Inside/outside	
Blow in	Yes	
Strain relief	Yes	
Optical Element	Loose tube, gel filled	
Fibre type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Material outer sheath	LSZH	
Colour outer sheath	Grey	
Flame retardant	Acc. IEC 60332-3	
Halogen free	Acc. IEC 60754-1	
Halogen free (acc. EN 50267-2-2)	Yes	
UV resistant	Yes	
Cable metal free	Yes	
Longitudinal water blocking	Yes	
Longitudinal watertight construction	Super Absorbing Polymer	
Installation temperature	-15 / 50	°C
Operation temperature range	-40 / 70	°C
Transportation and storage temperature	-40 / 70	°C
Attenuation @ 1310 nm	0.35	dB/km
Attenuation @ 1550 nm	0.22	dB/km
Attenuation @ 1625 nm	0.25	dB/km
Construction and Colour codes	zie bijlagen	



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

LTC HFFR



www.ace-fibreoptic.com

Partnumber	Description	Outer diameter approx.	Net weight (Kg/km)	Bending radius after installation	Bending radius during	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
77701	24xSM G.657.A1 (2x12)	12,4	157	185	250	4400	1500
77702	36xSM G.657.A1 (3x12)	12,4	158	185	250	4400	1500
77703	48xSM G.657.A1 (4x12)	12,4	159	185	250	4400	1500
77704	60xSM G.657.A1 (5x12)	12,4	160	185	250	4400	1500
77705	72xSM G.657.A1 (6x12)	12,4	161	185	250	4400	1500
77706	96xSM G.657.A1 (8x12)	14,0	203	210	280	5000	2000
77707	120xSM G.657.A1 (10x12)	15,8	256	240	320	5200	2500
77708	144xSM G.657.A1 (12x12)	17,5	308	265	350	5500	3000

Copyright (c) TKF, 11-04-2013

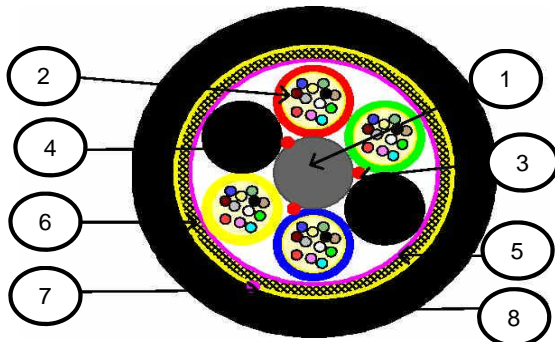
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

LTC HFFR

FO cable with stranded loose tubes, Indoor/outdoor application
Halogen Free Flame Retardant acc. IEC 60332-3-24 class C



Description:

- 1 Centre element, FRP optional with over sheath (LSZH)
- 2 Loose tube with optical fibres (2, 4, 6, 8 or 12 fibres per tube)
- 3 Water blocking yarns or tape
- 4 Filler
- 5 Water blocking tape
- 6 Glass yarn strength members (Rodent Protection)
- 7 Ripcord (optional)
- 8 Outer sheath (HFFR, Grey)

Standard Colours:

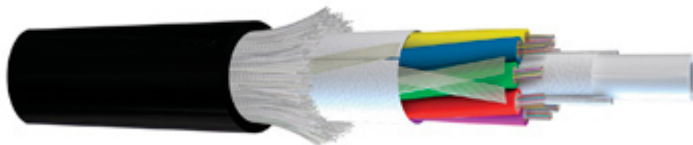
Fibres		Tube	
Fibre nr.	Group 1	Layer 1	
1	Red	1	Red
2	Green	2	Green
3	Blue	3	Blue
4	Yellow	4	Yellow
5	White	5	White
6	Grey	6	Grey
7	Brown	7	Brown
8	Violet	8	Violet
9	Turquoise	9	Orange
10	Black	10	Black
11	Orange	11	Pink
12	Pink	12	Turquoise

Fibre optic cables

LTC RP LSZH



www.ace-fibreoptic.com



LTC RP LSZH - Universal, Metallfree, Loose Tube Cable Rodent-Protected.

Robust, non-metallic, loose tube universal (indoor/outdoor) cable, rodent-protected, longitudinal water-protected, with Low Smoke Zero Halogen outersheath. Installation: by blowing or pulling, into conduits or on cable trays.

Characteristics	Properties	Unit
Product group	Universal cables	
Series	Glasvezelkabel Single Mode	
Type	LTC RP LSZH	
Standardization	IEC 60794-3-10	
Test procedures	IEC 60794-1-2	
Application	Inside/outside	
Blow in	Yes	
Strain relief	Yes	
Optical Element	Loose tube, gel filled	
Fibre type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Strip method	1 Rip cord	
Material outer sheath	LSZH	
Colour outer sheath	Black	
Flame retardant	Acc. IEC 60332-1-2	
Halogen free (acc. EN 50267-2-2)	Yes	
UV resistant	Yes	
UV-protection	ISO 4892/2	
Cable metal free	Yes	
Longitudinal water blocking	Yes	
Longitudinal watertight construction	Super Absorbing Polymer	
Installation temperature	-15 / 50	°C
Operation temperature range	Article dependant, see detail sheet	°C
Transportation and storage temperature	-40 / 70	°C
Attenuation @ 1310 nm	0.35	dB/km
Attenuation @ 1550 nm	0.22	dB/km
Attenuation @ 1625 nm	0.25	dB/km
Construction and Colour codes	zie bijlagen	



No rights whatsoever can be derived from the contents of this document

Fibre optic cables

LTC RP LSZH



www.ace-fibreoptic.com

Partnumber	Description	Outer diameter approx.	Net weight (Kg/km)	Bending radius after installation	Bending radius during	Tensile load short term (Tm) (N)	Tensile load Long Term (TI) (N)
74528	4x SM G.657.A1 (2x2)	10,6	95	160	215	4000	2000
74529	6x SM G.657.A1 (3x2)	10,6	95	160	215	4000	2000
74530	8x SM G.657.A1 (4x2)	10,6	96	160	215	4000	2000
74532	12x SM G.657.A1 (6x2)	10,6	97	160	215	4000	2000
74531	12x SM G.657.A1 (3x4)	10,5	95	160	215	4000	2000
74533	24x SM G.657.A1 (6x4)	10,5	97	160	215	4000	2000
74084	24x SM G.657.A1 (2x12)	10,6	94	160	210	4000	2000
74535	36x SM G.657.A1 (6x6)	10,6	98	160	210	4000	2000
74537	36x SM G.657.A1 (3x12)	10,6	95	160	210	4000	2000
74538	48x SM G.657.A1 (6x8)	11,4	113	170	230	4000	2000
74539	48x SM G.657.A1 (4x12)	10,6	96	160	210	4000	2000
74541	72x SM G.657.A1 (6x12)	11,3	114	170	230	4000	2500
74542	96x SM G.657.A1 (8x12)	12,9	142	195	260	4000	3000
74543	120x SM G.657.A1 (10x12)	14,4	177	220	300	5500	3000
74544	144x SM G.657.A1 (12x12)	16,2	216	245	330	5500	3000
74136	192x SM G.657.A1 ((5+11)x12)	15,8	198	240	320	3500	2500
74137	432x SM G.657.A1 ((6+12)x24)	19,8	313	300	400	5000	2500
74596	576x SM G.657.A1 ((9+15)x24)	23,2	416	345	465	5000	2000
74138	768x SM G.657.A1 ((5+11+16)x24)	24,9	484	380	510	5000	2500

Copyright (c) TKF, 11-04-2013

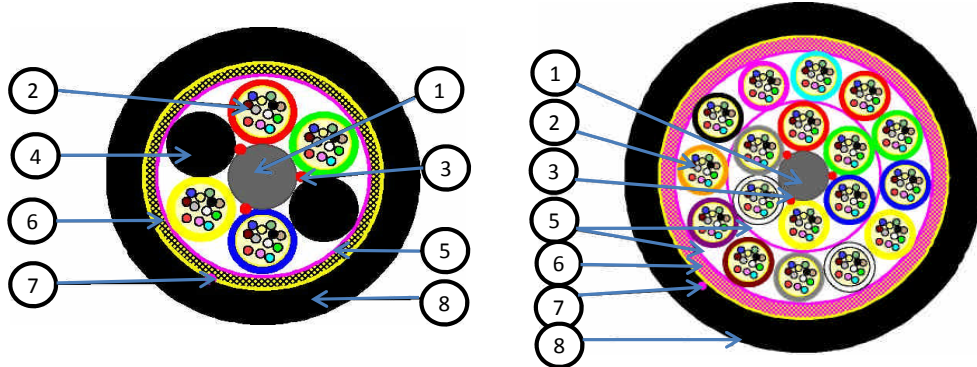
No rights whatsoever can be derived from the contents of this document

Product information

Cable construction and colour code

LTC RP LSZH

FO cable with stranded loose tubes
Rodent Protection, indoor/outdoor application



Description:

- 1 Centre element, FRP optional with over sheath
- 2 Loose tube with optical fibres (2, 4, 6, 8, 12 or 24 fibres per tube)
- 3 Water blocking yarns or tape
- 4 Filler
- 5 Water blocking tape
- 6 Glass yarn strength members (Rodent Protection)
- 7 Ripcord (optional)
- 8 Outer sheath (LSZH)

Standard Colours:

Fibres		Tubes					
Group 1	Group 2	Layer 1	Layer 2	Layer 2	Layer 3	Layer 3	
1 Red	13 Red +t	1 Red	1 Red	1 Red	1 Red	1 Red	
2 Green	14 Green +t	2 Green	2 Green	2 Green	2 Green	2 Green	
3 Blue	15 Blue +t	3 Blue	3 Blue	3 Blue	3 Blue	3 Blue	
4 Yellow	16 Yellow +t	4 Yellow	4 Yellow	4 Yellow	4 Yellow	4 Yellow	
5 White	17 White +t	5 White	5 White	5 White	5 White	5 White	
6 Grey	18 Grey +t	6 Grey	6 Grey	6 Grey	6 Grey	6 Grey	
7 Brown	19 Brown +t	7 Brown	7 Brown	7 Brown	7 Brown	7 Brown	
8 Violet	20 Violet +t	8 Violet	8 Violet	8 Violet	8 Violet	8 Violet	
9 Turquoise	21 Turquoise +t	9 Orange	9 Orange	9 Orange	9 Orange	9 Orange	
10 Black	22 Natural	10 Black	10 Black	10 Black	10 Black	10 Black	
11 Orange	23 Orange +t	11 Pink	11 Pink	11 Pink	11 Pink	11 Pink	
12 Pink	24 Pink +t	12 Turquoise	12 Turquoise	12 Turquoise	12 Turquoise	12 Turquoise	
			13 Red	13 Red	13 Red	13 Red	
			14 Green	14 Green	14 Green	14 Green	
			15 Blue	15 Blue	15 Blue	15 Blue	
			16 Yellow	16 Yellow	16 Yellow	16 Yellow	

note +t: indicates a black tracer