Ramcro

special cables

FIBER OPTICAL

FIBER OPTICAL
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SINGLEMODE OPTICAL FIBRE

G.652D / G.655

Singlemode optical fibres.
G652 fibres provide optimum performance in the 1310 nm wavelength.
They can be used on metropolitan and access networks, CATV and premises applications in telecom.
These fibres comply or exceed the standards IEC 60793-2-50, ITU-T G.652.D, Telcordia GR-20-CORE, ANSI/ICEA S-87-640, RUS 7CFR 1755.900, ANSI/TIA/EIA 492CAAA.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS		
	G.652.D	G.655
Cladding Diameter	125 ± 0,7 µm	125 ± 1 µm
Core/Cladding Concentricity	≤ 0,5 µm	≤ 0,6 µm
Cladding Non-Circularity	≤ 0,7 %	≤ 1,0 %
Primary Coating Diameter	242 ± 7 µm	242 ± 7 µm
Coating/Cladding Concentricity	≤ 12 µm	≤ 12 µm
Coating Non-Circularity	≤ 7 %	≤ 5 %
Proof Test	≥ 100 kspi	≥ 100 kspi

GEOMETRICAL AND MECHANICAL CHARACTERISTICS			
		G.652.D	G.655
Mode Field Diameter (µm)	1310 nm 1550 nm	9,0 ± 0,4 10,1 ± 0,5	---- 9,2 ± 0,5
Attenuation Coefficient (dB/km)	1310 nm 1383 nm 1460 nm 1550 nm 1625 nm	≤ 0,35 ≤ 0,35 ≤ 0,25 ≤ 0,22 ≤ 0,23	≤ 0,40 ≤ 1,00 ---- ≤ 0,25 ≤ 0,28
Chromatic Dispersion Coefficient (ps/nm.km)	1310 nm 1530 - 1565 nm 1285 - 1330 nm 1565 - 1625 nm 1550 nm 1625 nm	---- ---- ≤ 3 ---- ≤ 18 ≤ 22	-6 5,5 to 10 10 to -3 7,5 to 13,8 8 12
Zero Dispersion Wavelength (nm)		1300 - 1322	≤ 1440
Zero Dispersion Slope (ps/nm2 Km) Group Index of Refraction		≤ 0,090 1467 1468	≤ 0,052 1,4682 1,4683
Cable Cutt-Off Wavelenght (nm)	Cabling	≤ 1260	≤ 1300
PMD (ps / √km)	1550 nm	≤ 0,1	≤ 0,2

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MULTIMODE OPTICAL FIBRE

62,5 / 125

Graded-Index multimode oprtical fibres 62,5/125 micron. The fibres are designed for its use at the wavelengths of 850 nm and 1300 nm. These fibres are suitable for use in premises wiring applications, like Local Area Networks (LAN) with video, data and voice using LED, VCSEL or Laser Fabry Perot sources. These fibres comply with IEC 60793-2-10 A1b.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	
Core Diameter	62,5 ± 2,5
Core Non-Circularity	≤ 6%
Core / Cladding concentricity error	≤ 1,5
Cladding Diameter	125 ± 2
Cladding non-circularity	≤ 1 %
Primary coating diameter	245 ± 10
Coating non-circularity	≤ 6%
Coating concentricity error	≤ 12,5
Proof Test	*≥ 8,8 N / ≥ 1 % / ≥ 100 Kpsi*

OPTICAL CHARACTERISTICS		
Attenuation Coefficient	850 nm 1300 nm	≤ 3,0 ≤ 0,7
Bandwidth	850 nm 1300 nm	*≥ 500* *≥ 500*
Link Distance	1000Base-SX 1000Base-LX	*550* *550*
Numerical Aperture		0,275 ± 0,015
Group Index of Refraction	850 nm 1300 nm	1496 1491

MULTIMODE OPTICAL FIBRE

50 / 125

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	
Core Diameter	50 ± 2,0
Core Non-Circularity	≤ 5%
Core / Cladding concentricity error	≤ 1
Cladding Diameter	125 ± 1,0
Cladding non-circularity	≤ 0,7 %
Primary coating diameter	242 ± 5
Coating non-circularity	≤ 5%
Coating concentricity error	≤ 12,5
Proof Test	*≥ 8,8 N / ≥ 1 % / ≥ 100 Kpsi*

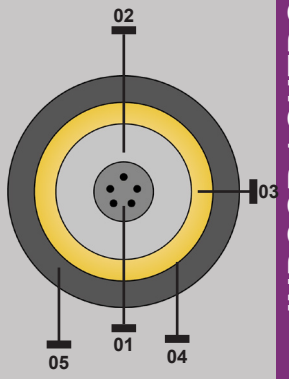
Graded-Index multimode oprtical fibres 50/125 micron. The fibres are designed for use at 850 and 1300 nm. These fibres are suitable for use in premises wiring applications, like Local Area Networks (LAN) with video, data and voice using LED, VCSEL or Laser Fabry Perot sources. These fibres comply or exceed the standards IEC 60793-2-10 A1a.1, A1a.2, A1a.3,TIA/EIA-492AAAB, TIA/EIA-492AAAC-A, TIA/EIA492AAAD, Telcordia GR-20-CORE, GR-409-CORE, TIA/EIA 568C

OPTICAL CHARACTERISTICS							
		OM2	**OM2 XL**	**OM3 SL**	**OM3**	**OM4**	**Giga**
Attenuation Coefficient	850 nm 1300 nm	≤ 2,5 ≤ 0,7	≤ 2,5 ≤ 0,7	≤ 2,5 ≤ 0,7	≤ 2,5 ≤ 0,7	≤ 2,5 ≤ 0,7	≤ 2,5 ≤ 0,7
Bandwidth	850 nm 1300 nm	*≥ 500* *≥ 500*	*≥ 600* *≥ 1200*	*≥ 700* *≥ 500*	*≥ 1500* *≥ 500*	*≥ 3500* *≥ 500*	*≥ 600* *≥ 1200*
Link Distance	1000Base-SX 1000Base-LX 10000Base-SX	*550* *550* *82*	*550* *550* *82*	*800* *550* *82*	*900* *550* *300*	*1100* *550* *550*	*750* *2000* *110*
Numerical Aperture				0,200 ± 0,015			
Group Index of Refraction	850 nm 1300 nm			1.482 1.477			

RE

Loose Tube Cables

Indoor/Outdoor



1. Fibre Optic
2. Nylon Cover
3. Outer Sheath
4. dasdas
5. dasdasd

INDOOR / OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION							
FIBRES	**2**	**4**	**6**	**8**	**12**	**16**	**24**
Ø Central Tube (mm ± 0,3)			3,2			4,2	
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)						
Outer Jacket	Thermoplastic Low Smoke Halogen Free LSZH(FRNC)						
Colour	Dark Grey						
Weight (Kg/Km)		53				60	
Ø Outer (mm ± 0,3)		7,0				7,9	
Tensile Load Perm / Inst (N)	1000 / 1800						
Crush (N)	1500						
Temperature Range	- 30° C to +70° C						
Min. Bending Radius	20 x Ø Outer						

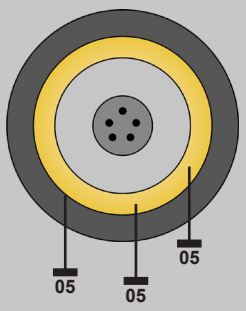
Standards
Enviromental and mechanical tests according to EN 187000 and CEI 60794
Fire Test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2)

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

NEXO (DP)

Loose Tube Cables

Indoor/Outdoor



INDOOR / OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION							
FIBRES	**2**	**4**	**6**	**8**	**12**	**16**	**24**
Ø Central Tube (mm)			3,2 ± 0,2			4,2 ± 0,2	
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)						
Outer Jacket	Low Density Polyethylene						
Colour	Black						
Weight (Kg/Km)		40				50	
Ø Outer (mm ± 0,3)		7,0 ± 0,3				7,9 ± 0,3	
Tensile Load Perm / Inst (N)	1000 / 1800						
Crush (N)	1500						
Temperature Range	- 40° C to +70° C						
Min. Bending Radius	20 x Ø Outer						

Standards
Enviromental and mechanical tests according to EN 187000 and CEI 60794

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

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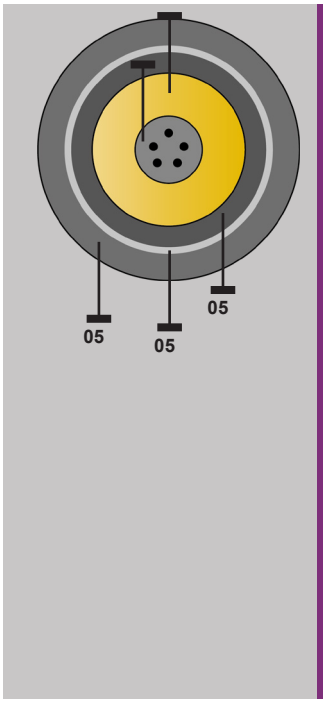
DSP-1

Loose Tube Cables



METALLIC OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

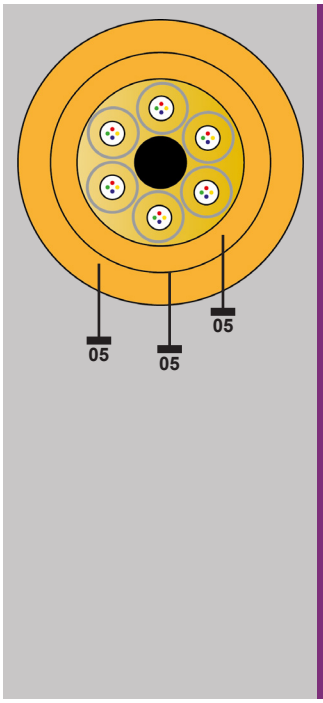
SPECIFICATION							
FIBRES	**2**	**4**	**6**	**8**	**12**	**16**	**24**
Ø Central Tube (mm)	4,5 ±0,2						
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)						
Armour	Corrugated Steel Armour						
Outer Jacket	Low Density Polyethylene						
Colour	Black						
Weight (Kg/Km)	88						
Ø Outer (mm ± 0,3)	9,6						
Tensile Load Perm / Inst (N)	1500 / 2700						
Crush (N)	2000						
Temperature Range	- 40° C to +70° C						
Min. Bending Radius	20 x Ø Outer						
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794							

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

DP

Loose Tube Cables

Indoor/Outdoor



INDOOR / OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

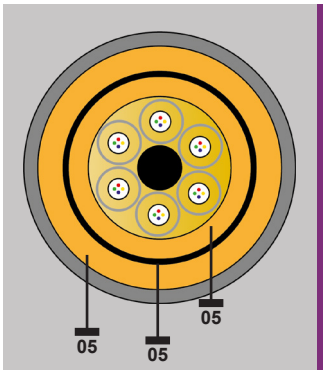
Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION							
FIBRES COUNT	**16**	**32**	**36**	**48**	**64**	**72**	**96**
Fibres per Tube	4	8	6	12	8	12	12
Total Tube	4	4	6	4	8	6	8
Active Tube	4	4	6	4	8	6	8
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)						
Compound	Low Density Polyethylene						
Colour	Black						
Weight (Kg/Km)	63	74	82	84	134	119	157
Ø Outer (mm ± 0,3)	9,3	10,2	10,5	11,0	13,2	12,6	14,3
Tensile Load Perm / Inst (N)	1000 / 1800				1500 / 2700		
Crush (N)	2000						
Temperature Range	- 40° C to +70° C						
Min. Bending Radius	20 x Ø Outer						
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794							

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

DSP

Loose Tube Cables



METALLIC OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

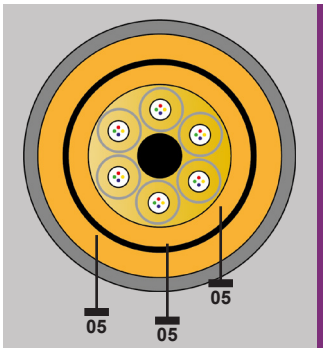
SPECIFICATION								
FIBRES COUNT	**16**	**24**	**32**	**36**	**48**	**64**	**72**	**96**
Fibres per Tube	4	6	8	6	12	8	12	12
Total Tube	4	4	4	6	4	8	6	8
Active Tube	4	4	4	6	4	8	6	8
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)							
Armour	Corrugated Steel Armour							
Compound	Low Density Polyethylene							
Colour	Black							
Weight (Kg/Km)	98	98	143	148	148	220	215	222
Ø Outer (mm ± 0,5)	10,0	10,0	12,5	12,5	12,5	16,0	16,0	16,0
Tensile Load Perm / Inst (N)	2000 / 3600							
Crush (N)	2500							
Temperature Range	- 40° C to +70° C							
Min. Bending Radius	20 x Ø Outer							
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794								

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

DPSP

Loose Tube Cables

Indoor/Outdoor



INDOOR / OUTDOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION								
FIBRES COUNT	**16**	**24**	**32**	**36**	**48**	**64**	**72**	**96**
Fibres per Tube	4	6	8	6	12	8	12	12
Total Tube	4	4	4	6	4	8	6	8
Active Tube	4	4	4	6	4	8	6	8
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)							
Inner Jacket	Low Density Polyethylene							
Armour	Corrugated Steel Armour							
Compound	Low Density Polyethylene							
Colour	Black							
Weight (Kg/Km)	140	141	191	195	196	274	265	272
Ø Outer (mm ± 0,5)	12,5	12,5	15,3	15,3	15,3	18,3	18,3	18,3
Tensile Load Perm / Inst (N)	2000 / 3600							
Crush (N)	3000							
Temperature Range	- 40° C to +70° C							
Min. Bending Radius	20 x Ø Outer							
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794								

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

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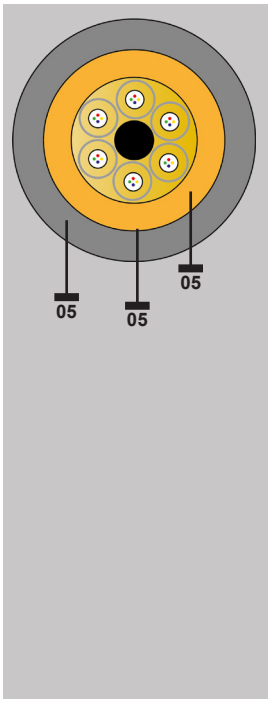
PKP

Loose Tube Cables



DIELETRIC OUTODOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

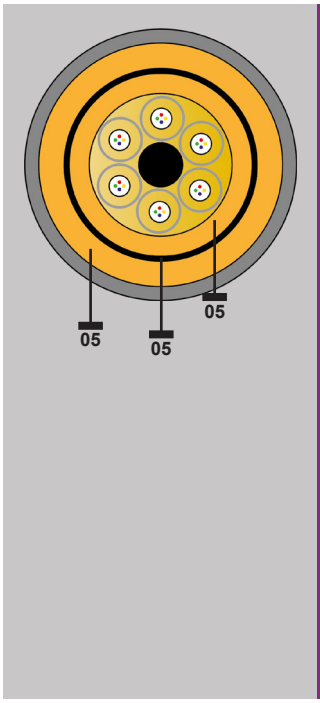
SPECIFICATION												
FIBRES COUNT	**4**	**6**	**8**	**12**	**16**	**24**	**32**	**36**	**48**	**64**	**72**	**96**
Fibres per Tube	4	2	4	4	4	6	8	6	12	8	12	12
Total Tube	4	4	4	4	4	4	4	6	4	8	6	8
Active Tube	1	3	2	3	4	4	4	6	4	8	6	8
Inner Jacket	Low Density Polyethylene											
Strenght Members	Aramid Yarns											
Compound	Low Density Polyethylene											
Colour	Black											
Weight (Kg/Km)	83	86	84	86	87	88	101	109	113	169	152	195
Ø Outer (mm ± 0,3)	11,1	11,1	11,1	11,1	11,1	11,1	12,0	12,3	12,8	15,0	14,4	16,1
Tensile Load Perm / Inst (N)	1000										1500	
Crush (N)	2000											
Temperature Range	- 40° C to +70° C											
Min. Bending Radius	20 x Ø Outer											
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794												

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

DPDP

Loose Tube Cables

Indoor/Outdoor



DIELETRIC OUTODOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

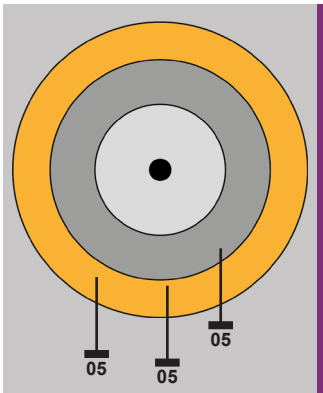
Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION								
FIBRES COUNT	**16**	**24**	**32**	**36**	**48**	**64**	**72**	**96**
Fibres per Tube	4	6	8	6	12	8	12	12
Total Tube	4	4	4	6	4	8	6	8
Active Tube	4	4	4	6	4	8	6	8
Strenght Members	Fiberglass Reinforcements WB (Waterblocking)							
Inner Jacket	Low Density Polyethylene							
Armour	Fiberglass Braid							
Outer Jacket	Low Density Polyethylene							
Colour	Black							
Weight (Kg/Km)	112	112	127	135	139	198	181	225
Ø Outer (mm ± 0,5)	11,9	11,9	12,8	13,1	13,6	15,8	15,2	16,9
Tensile Load Perm / Inst (N)	1200 / 2150					1700 / 3050		
Crush (N)	3000							
Temperature Range	- 40° C to +70° C							
Min. Bending Radius	20 x Ø Outer							
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794								

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

CPS

Tight Buffer Cables



PATCHCORD

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

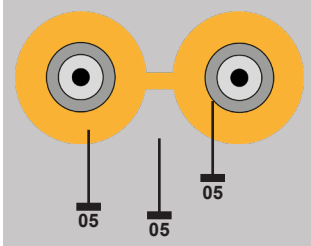
SPECIFICATION	
FIBRES COUNT	**1**
Strenght Members	Aramid Yarns
Armour	Corrugated Steel Armour
Compound	Thermoplastic FRLS
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)
Weight (Kg/Km)	7,5
Ø Outer (mm)	2,9 $^{\pm 0,1}$
Tensile Load Perm / Inst (N)	200 / 350
Crush (N)	500
Temperature Range	-5° C to +60° C
Min. Bending Radius	15 x Ø Outer
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794	

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

ZIPCORD / Mini ZIPCORD

Tight Buffer Cables

Patchcord



PATCHCORD

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION				
	Zipcord	**Mini ZIP-16**	**Mini ZIP-21**	**Mini ZIP-25**
FIBRES COUNT	**2**			
Identification	Colours			
Strenght Members	Aramid Yarns			
Outer Jacket	FRLS	LSZH(FRNC)		
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)			
Weight (Kg/Km)	**15**	**5,5**	**9**	**12,2**
Ø Outer (mm $^{\pm 0,1}$)	2,8 x 5,9	1,6 x 3,4	2,1 x 4,4	2,5 x 5,3
Tensile Load Perm / Inst (N)	400 / 700	80 / 130	240 / 400	300 / 500
Crush (N)	500	300	300	500
Temperature Range	-5° C to +60° C			
Min. Bending Radius	15 x Ø Outer			
Standards Enviromental and mechanical tests according to EN 187000 and CEI 60794				

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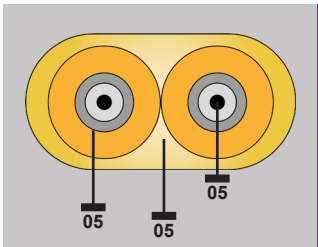
FLAT

Tight Buffer Cables



DIELETRIC OUTODOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

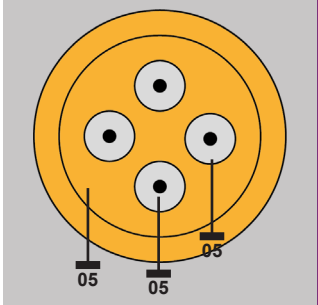
SPECIFICATION	
Fibres	**2**
Strenght Members	Aramid Yarns
Subcables Jacket	FRLS [1]
Ø Subcables (mm)	2,9 ± 0,1
Outer Jacket	Thermoplastic FRLS [1]
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)
Weight	27
Outer Ø (mm)	3.8 x 6.7 ± 0,2
Tensile Load Perm/Inst (N)	400 / 700
Crush (N)	750
Temperature Range	-5° C to +60° C
Min. Bending Radius	15 x Ø Outer

Standards
Enviromental and mechanical tests according to EN 187000 and CEI 60794
Fire Test according to UNE-EN 50265 (IEC 60332-1) / UNE-EN 50268 (IEC 61034-1/2)
Inner Jacket colour: Red, Green
[1] FRLS - Special PVC heavy metal free, low halogen and low smoke emission and flame retardant
[2] For singlemode fibre G.657 the jacket colour is ivory

CDi

Tight Buffer Cables

Indoor/Outdoor



DIELETRIC OUTODOOR

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

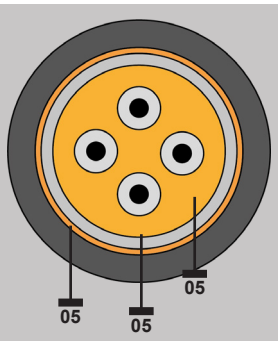
SPECIFICATION					
FIBRES COUNT	**2**	**4**	**6**	**8**	**12**
Strenght Members	Aramid Yarns				
Inner Jacket	Thermoplastic LSZH [1]				
Colour	Orange (MM62) / Blue (MM50) / Yellow (SM)				
Weight (Kg/Km)	19	22	29	37	49
Ø Outer (mm ± 0,3)	4,5	4,9	5,6	6,3	7,3
Tensile Load Perm / Inst (N)	400 / 700		500 / 850		600 / 1000
Crush (N)	1000				
Temperature Range	- 5° C to +60° C				
Min. Bending Radius	20 x Ø Outer				

Standards
Enviromental and mechanical tests according to EN 187000 and CEI 60794

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

CDAS

Tight Buffer Cables



METALLIC ARMOURED

Cable Description:
Fibres Optic
Central Tube (Jelly Filled)
Fiberglass Reinforcements - WB
Ripcord
Outer Jacket

Fire Resistance
Flame Retardant
Halogen Free
Low Smoke Emission

Applications
Universal (Indoor/Outdoor)

Rodent Protection
Rodent Protected

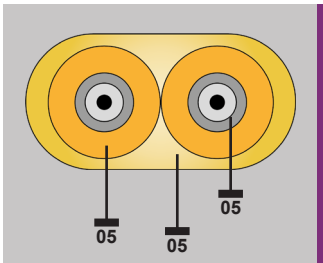
Advantages
Compact / Lightweight / Flexible / Tough / Resistant / Totally Dieletric / Watertight / Reduced Diameter / Rodent Protected

SPECIFICATION						
FIBRES COUNT	**2**	**4**	**6**	**8**	**10**	**12**
Strenght Members	Aramid Yarns					
Inner Jacket	Thermoplastic					
Armour	Corrugated Steel Armour					
Compound	Thermoplastic LSZH [1]					
Colour	Dark Grey					
Weight (Kg/Km)	109				175	
Ø Outer (mm)	9,6 ± 0,1				12,1 ± 0,1	
Tensile Load Perm / Inst (N)	1200 / 2150					
Crush (N)	1500					
Temperature Range	-20° C to +70° C					
Min. Bending Radius	20 x Ø Outer					
Standards	Enviromental and mechanical tests according to EN 187000 and CEI 60794					

------ Special Designs ------
This cable can be manufactured with the following alternative designs
Armoured - SWA / SWB / STA / Corrugated
Lead Cover or Nyloram (Al+HDPE/Polyamide)
Fire Resistant version

ADSS 80 / 120 / 150 / 200

Aerial loose tube



SELF SUPPORTED

Cable Description:
Central Filler
Fibre Optics
Loose Tube (Jelly Filled)
Inner Jacket
Aramid
Ripcord
Outer Jacket

Applications
Aerial Installations

Options
Anti-Tracking Jacket
Ballistic Protection
Special Colour Code (TIA 598)

Advantages
Excellent mechanical resistance / Totally dieletric / Tough / Resistant / High density of fibres / Self-supported aerial applications

SPECIFICATION												
Maximum Distance		**80 m**			**120 m**			**150 m**			**200 m**	
Fibres	4	6	8	12	16	24	32	36	48	64	72	96
Fibres per Tube	2	2	2	2	4	4	8	6	8	8	12	12
Total Tube	6	6	6	6	6	6	6	6	6	8	6	8
Inner Jacket	Polythylene											
Strenght Member	Aramid Yarns											
Outer Jacket	Polyethylene											
Colour	Black											
MAT (N)	80 m: 3000			120 m: 4000			150 m: 6000			200 m: 8000		
EDS (N)	80 m: 1200			80 m: 1600			80 m: 2400			80 m: 3200		
Impact	SJ											
Temperature Range	-40° C to +70° C											
Min. Bending Radius	20 x Ø Outer											
	80 m											
Weight (Kg/Km)	111	113	115	120	116	120	133	121	139	175	141	177
Ø Outer (mm)	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	13,3 ±0,5	12,4 ±0,5	13,3 ±0,5	15,0 ±0,5	13,3 ±0,5	15,0 ±0,5
Maximum Lenght	3200	3200	3200	3200	3200	3200	2100	3200	2100	2100	2100	2100
	120 m											
Weight (Kg/Km)	113	115	117	122	118	123	133	123	142	177	143	179
Ø Outer (mm)	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	12,4 ±0,5	13,3 ±0,5	12,4 ±0,5	13,3 ±0,5	15,0 ±0,5	13,3 ±0,5	15,0 ±0,5
Maximum Lenght	3200	3200	3200	3200	3200	3200	2100	3200	2100	2100	2100	2100
	150 m											
Weight (Kg/Km)	118	120	123	127	123	128	141	128	147	182	148	184
Ø Outer (mm)	12,7 ±0,5	12,7 ±0,5	12,7 ±0,5	12,7 ±0,5	12,7 ±0,5	12,7 ±0,5	13,6 ±0,5	12,7 ±0,5	13,6 ±0,5	15,3 ±0,5	13,6 ±0,5	15,3 ±0,5
Maximum Lenght	3200	3200	3200	3200	3200	3200	2100	3200	2100	2100	2100	2100
	150 m											
Weight (Kg/Km)	123	125	127	132	128	132	145	133	151	186	153	188
Ø Outer (mm)	12,8 ±0,5	12,8 ±0,5	12,8 ±0,5	12,8 ±0,5	12,8 ±0,5	12,8 ±0,5	13,7 ±0,5	12,8 ±0,5	13,7 ±0,5	15,3 ±0,5	13,7 ±0,5	15,3 ±0,5
Maximum Lenght	3200	3200	3200	3200	3200	3200	2100	3200	2100	21200	2100	2100

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QD 06/01

Edited by Sales Director on November 2021

Dr. Croci

Approved by AQ: PC