





60 years of Know-how



80% export of our solutions



2,000 customers



Production capacity of 110,000 ton/year



Exports to more than 70 countries



22 production lines

WIRE & CABLE MARKETS



AUTOMOTIVE



POWER



**TELECOM** 



The Sofiplus compounds has been specially formulated to meet the requirements of the automotive sector. These compounds are the result of an extensive work and know-how of Cabopol in this area, providing a fast and effective homologation of the compound, as well as a total guarantee of quality in its continuous use. High temperature application requires high performance solutions. Above +125°C automotive insulation ask for crosslinked materials Halogen Free or Low Halogen. Cabopol solutions according ISO 6722, LV 112 fulfil abrasion resistance, electrical and thermal ageing 3000 hours. Crosslinked materials can be done using different methods: E-beam, Peroxide or Silane.





Code	Density	Hardness	Tensile strength Mpa	Elongation at break %	Specific	Standards	Halogen Free	E- Beam Crosslinked	Peroxide Crosslinked	Silane Crosslinked	Insulation	Extrusion
			N N		<u>"</u>							
HZ 01PAF	1,43	47 ShD	17,5	180	Small sections (0,35 to 6,00 mm2)	GMW 15626 SAE J1128			<b>/</b>		<b>/</b>	<b>/</b>
PEX3-SAE	1,43	46 ShD	10,0	145	Small sections (0,35 to 6,00mm2)	GMW 15626 SAE J1128	<u></u>	<b>/</b>			<b>\</b>	<b>/</b>
PEX3HF-S	1,40	57 ShD	14,0	150	Small sections (0,35 to 0,50 mm2)	ISO 6722	<b>/</b>				<b>\</b>	<u> </u>
HZ 08CX	1,39	52 ShD	11,0	250	Small sections (0,35 to 6,00 mm2)	SAE J1128	<b>/</b>			<b>/</b>	<b>\</b>	<u> </u>
HZ 04CX	1,37	58 ShD	15	175	Small sections (0,35 to 6,00mm2)	SAE J1127	<b>/</b>				<b>\</b>	<u></u>
PEXS-S	1,40	56 ShD	12	200	Small sections (0,35 to 0,50 mm2)	ISO 6722	<b>/</b>	<b>/</b>			<b>\</b>	<u></u>
PEX3HF-M	1,40	50 ShD	15,0	175	Medium sections (0,75 to 7,00 mm2)	ISO 6722	<b>/</b>	<b>/</b>			<b>\</b>	<u> </u>
PEXS-M	1,40	54 ShD	12	200	Medium sections (0,75 to 6,00 mm2)	ISO 6722	<b>/</b>	<b>/</b>			<b>/</b>	<u></u>
HZ 03P125	1,26	25 ShD	9,0	700	High sections (>8,00 mm2)	ISO 6722 SAE J1127	<b>/</b>	<u></u>			<b>\</b>	<u> </u>
HZ 02P125	1,28	40 ShD	13	150	High sections (>8,00 mm2)	ISO 6722 SAE J1127	<b>/</b>		<b>\</b>		<b>\</b>	<b>/</b>



## PP COMPOUNDS T3 CLASS (-40° TO 125°)

Code	Density	Hardness	Tensile strength Mpa	Elongation at break %	Specific	Standards	Halogen Free	Halogenated	Thermoplastic	Insulation	Extrusion
PP-S	1,26	60 ShD	17,0	450	Small sections (0,35 to 0,75 mm2)	ISO 6722 LV 112		<b>\</b>	<b>/</b>	<b>\</b>	<b>/</b>
PP0H3-S	1,40	60 ShD	15,0	180	Small sections (0,35 to 2,00 mm2)	ISO 6722 LV 112	<b>/</b>		<b>/</b>	<b>\</b>	<u> </u>
РРОНЗ-М	1,39	53 ShD	15,0	200	Medium sections (2,5 to 7,00 mm2)	ISO 6722 LV 112	<b>/</b>		<b>/</b>	<b>\</b>	<b>/</b>
PP-M	1,25	56 ShD	17,0	450	Medium sections (1,0 to 7,00 mm2)	ISO 6722 LV 112		<b>\</b>	<b>/</b>	<b>\</b>	<u> </u>
PP-H	1,24	50 ShD	17,0	450	High sections (>8,00 mm2)	ISO 6722 LV 112		<b>/</b>	<u></u>	<b>/</b>	<u> </u>
РР0Н3-Н	1,36	47 ShD	13,0	220	High sections (>8,00 mm2)	ISO 6722 LV 112	<u></u>		<b>/</b>	<b>\</b>	<u> </u>



## XLPO COMPOUNDS T4 CLASS (-40° TO 150°)

T4 CLASS

Code	Density	Hardness	Tensile strength Mpa	Elongation at break %	Specific application	Standards	Halogen Free	E- Beam Crosslinked	Peroxide Crosslinked	Silane Crosslinked	Insulation	Extrusion
PEX4HF-S	1,36	55 ShD	15,0	280	Small sections (<2,00 mm2)	ISO 6722	<b>/</b>	<b>\</b>			<b>/</b>	<b>/</b>
PEX4 S-1	1,41	56 ShD	12	170	Small sections (0,35 to 0,50 mm2)	ISO 6722	<b>/</b>	<b>\</b>			<b>\</b>	<u></u>
PEX4HF-M	1,37	54 ShD	14,5	210	Medium sections (2,5 to 7,00 mm2)	ISO 6722		<b>\</b>			<b>/</b>	<u></u>
PEX4 S-2	1,41	51 ShD	12	180	Medium sections (0,75 to 6,00 mm2)	ISO 6722	<b>/</b>	<b>\</b>			<b>/</b>	<u></u>
HZ 03P150	1,30	20 ShD	7,0	400	High sections (>8,00 mm2)	ISO 6722		<b>\</b>			<b>/</b>	<u> </u>
HZ 02P150	1,31	25 ShD	14,0	350	High sections (>8,00 mm2)	ISO 6722	<b>/</b>		<b>/</b>		<b>/</b>	<u> </u>
HZ 07CX	1,30	33 ShD	11,0	600	High sections (>8,00 mm2)	ISO 6722	<u></u>			<u> </u>	<b>\</b>	<u> </u>



Our Polyprime compounds for automotive wire are highly prepared to meet all the requirements and standards of the automotive industry. They are the result of a long work and experience of Cabopol in this area, providing a rapid and effective homologation of the compound as well as a total guarantee of quality in its continuous use. The degree of purity of our compounds is the key condition for achieving high levels of profitability and confidence in the use of our PVC wire.



## PVC COMPOUNDS T2 CLASS (-40° TO 105°)

Code	Density	Hardness ShA	Operating temp.°C	Tensile strength N/mm2	Elongation at break %	Specific	Standards	OEM'S	Halogenated	Thermoplastic	Extrusion	Insulation	Additional Features
DEL/30A	1,34	90	-40 to 105°C	15,0	180	Small sections (0,35 to 0,50 mm2)	ISO 6722 LV 112	PSA IRT2: 0,35 - 7,00mm2 PSA G2: 10, 16mm2 PSA IDT2: 0,35 - 4,00mm2 VW FLRY: 0,22 - 6,00mm2 VW FLY: 4, 6,10mm2	<u></u>	<u> </u>	<u> </u>	<u> </u>	* +
DEL/40A	1,34	90	-40 to 105°C	15,0	180	Medium sections (0,60 to 6,00 mm2)	ISO 6722 LV 112	VW FLY: 4, 35,00mm2 VW FLY: 4, 35,00mm2 Fiat F2: 0,35 - 35mm2 Opel(GM): FLRY: 0,35 - 6,00mm2 Opel: FLY 8,00mm2 Daimler Chrysler Mercedes FLRY:	<u></u>	<u></u>	<u></u>	<u></u>	**
DEL/55A	1,34	90	-40 to 105°C	18,0	270	High sections (7,00 to 20,00 mm2)	ISO 6722 LV 112	0,35 - 6,00mm2 Daimler Chrysler Mercedes FLY: 4,00 - 6,00 - 10 - 16 - 25 - 35 - 50 - 70 - 95 Land rover FLRYBYW: 1x0,35+0,35 - 2x0,35 0,35 - 3x0,35+0,35	<u> </u>	<u></u>	<u> </u>		*
DEL/60A	1,35	85	-40 to 105°C	12,5	200	Battery sections (>20,00 mm2)	ISO 6722 LV 112	BMW FLRY: 0,35 - 6,00mm2 BMW: 10-16-25-35-50-70 Volvo RFLY 2: 0,35 - 10,0mm2 FORD: A2 FLRY: 0,35 - 6mm2	<u> </u>	<u></u>	<b>\</b>	<u></u>	







## PVC COMPOUNDS T3 CLASS (-40° TO 125°)

Thermoplastic Elongation at break % Operating temp.°C Additional Features Hardness ShA Standards Extrusion Insulation Tensile strength N/mm2 Density OEM'S Code YAZ/10C 1,35 18,0 90 -40 to 125°C 200 (0,35 to 0,75 mm2) LV 112 PSA: IR T3 0,35 - 7,0mm2 Medium sections ISO 6722 Daimler Chrysler Mercedes FLRYW: 0 ,35 - 16,0mm2 YAZ/11C 1,33 90 -40 to 125°C 18,0 200 (1,0 to 3,00 mm2) VOLVO R3 High sections ISO 6722 YAZ/93A 1,32 90 -40 to 125°C 14,5 150 FORD: A3:0,50 - 6,00mm2 (4,0 to 20,00 mm2) LV 112 Renault: R3: 0,35 - 7,00mm2 Battery sections ( > 20 mm2) ISO 6722 YAZ/94A 1,32 -40 to 125°C 17,5

















LACOFLEX TEC TPE are compounds based on TPE-E for automotive insulation classes up to 150°C with excellent cold behavior (-40°C) and abrasion resistant. These compounds can be halogen-free flame retardants or low halogen flame retardants, depending on the standard requirements and the customer requirements. The LACOFLEX TEC TPU compounds have been specially formulated to ensure good processability and are the result of extensive work and development. These compounds can be used for automotive wires with resistance up to 125 °C. They exhibit excellent resistance to hydrolysis, mechanical properties, UV protection and flame retardancy.



## TPE-E COMPOUNDS T3 CLASS (-40° TO 125°)

©) Code	Density	Hardness	Operating temp.°C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	UL94	Thermoplastic	Halogen free	Insulation	Additional Features
TPE125HZ-85A	1,22	85 ShA	125°C	10	500	150°C 240 h	ISO 6722 ISO14572 LV 112-1	V2	<b>\</b>	<b>/</b>	<u></u>	
TPE125HZ-57D	1,30	53 ShD	125°C	14	400	150°C 240 h	ISO 6722 ISO14572 LV 112-1	V2	<u> </u>	<u> </u>	<u></u>	© ~ ~ 8° ≈ 1+ *







FLEXIBLE AT

















EXTRUSION

FLEXIBLE

HIGH TEMP

ABRASION RESISTANT



(S) Code	Density	Hardness	Operating temp.°C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	UL94	Thermoplastic	Halogen free	Insulation	Additional Features
TPE0H3-S	1,38	55 ShD	125°C	15	150	150°C 240 h	ISO 6722 ISO 14572 LV 112-1	V2	<b>/</b>	<u> </u>	<u></u>	6     1     3     3     1     3 </td
TPE0H3-M	1,36	50 ShD	125°C	15	300	150°C 240 h	ISO 6722 ISO 14572 LV 112-1	V2	<b>\</b>	<u> </u>	<u></u>	6       1
ТРЕ0Н3-Н	1,36	47 ShD	125°C	12	300	150°C 240 h	ISO 6722 ISO 14572 LV 112-1	V2	<u> </u>	<u> </u>	<u></u>	6       1
TPE0H3-HF	1,36	45 ShD	125°C	10	300	150°C 240 h	ISO 6722 ISO 14572 LV 112-1	V2	<b>\</b>	<b>\</b>	<u></u>	6     1     3     3     3     4     3     3     3     4     3     3     3     3     4     3     3     3     4     3     3     4     3     3     4     3     4     3     4     3     4 </td



RETARDANT



FLEXIBLE



LOW TEMP





RESISTANT



RESISTANT



RESISTANT







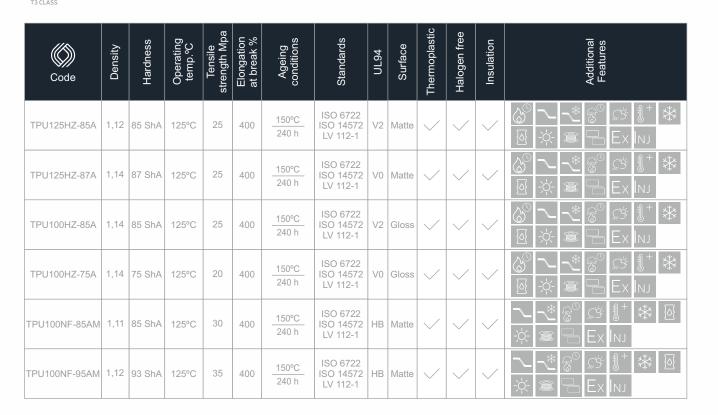
COILABLE



RESISTANT



## TPU COMPOUNDS T3 CLASS (-40° TO 125°)































FLAME RETARDANT

FLEXIBLE AT

LOW SMOKE

LOW TEMP. RESISTANT

RESISTANT

RESISTANT

RESISTANT

EXTRUSION

INJECTION



©) Code	Density	Hardness	Operating temp.°C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	UL94	Thermoplastic	Halogen free	Insulation	Additional Features
TPE150HZ-85A	1,30	85 ShD	150°C	13	200	175°C 240 h	ISO 6722 ISO14572 LV 112-1	V2	<u> </u>	<u></u>	<u></u>	S     - </td
TPE150HZ-50D	1,30	50 ShA	150°C	14	200	175°C 240 h	ISO 6722 ISO14572 LV 112-1	V2	<u> </u>	<u></u>	<u></u>	6     1     4     6 </td
TPE150LH-55D	1,30	52 ShD	150°C	15	300	175°C 240 h	ISO 6722 ISO14572 LV 112-1	V2	<u></u>		<u></u>	Image: Second control of the contr

























## TPE & TPU COMPOUNDS FOR VEHICLES CHARGING CABLE



EV CABLES																	
(S) Code	Density	Hardness	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	Class	UL94	Hd	Conductivity	Peroxide Crosslinked	Thermoplastic	Halogen free	Halogenated	Insulation	Sheathing	Additional Features
TPX100NF-80A	1,48	83 ShA	8,5	250	136°C 168 h	EN 50620 IEC 60754	EVI-2	НВ	>4.3	<10	<b>/</b>		<u></u>		<u> </u>		& ~ * 8° 5° 1° 1° Ex
TPE0H3-M	1,36	50 ShD	15	300	136°C 168 h	EN 50620 IEC 60754	EVI-1	V2	>4.3	<10		<b>\</b>	<u></u>		<u> </u>		& ~ * &
TPU100HZ-80A	1,16	87 ShA	25	500	110°C 168 h	EN 50620 IEC 60754	EVI-1	V2	6,7	7		<u> </u>	<u></u>			<u></u>	♦     1       ★     ♦       ♦ </td
TPU100HZ-88A	1,20	87 ShA	30	500	110°C 168 h	EN 50620 IEC 60754	EVI-1	V0	7.0	6		<u> </u>	<u></u>			<u></u>	<ul><li>☆ ~ * * * * * * * * * * * * * * * * * *</li></ul>
TPE100NF-80A	1,10	80 ShA	15	300	136°C 168 h	UL62	14; 15; 16	НВ	>4.3	<10		<u> </u>	<u></u>		<u> </u>	<u></u>	※ 図 ※ ■ Ex
TPE100LH-85A	1,20	85 ShA	13	300	136°C 168 h	UL62	14; 15; 16	V0	-	-		<u> </u>		<u></u>	<u> </u>	<u></u>	③

























FLAME RETARDANT

FLEXIBLE

LOW SMOKE

WEATHER RESISTANT

HIGH TEMP. RESISTANT

LOW TEMP. RESISTANT

OIL RESISTANT

# AUTOMOTIVE COAXIAL CABLES

Single-wire asymmetric shielded cables, designed for high-frequency signals communications. By foaming the insulation layer it's possible to reduce the relative permittivity to values of about 1.6 or less, and thus achieve the best impedance, attenuation and transmission losses, which in practice can be translated to a smaller diameter cable design.

## **Applications**

High Frequency transmission cables like GSM, GPS, DVB, Radio, WCDMA, HSPDA, WLAN, WUSB, WiMAX, mobile broadcast & car to car communication.

#### Benefits & Properties

Recyclability, Solid and foam dielectrics available, standard temperature range -40 up to  $+105^{\circ}$ C to  $+205^{\circ}$ C, easy processing: Good wire diameter control and perfect foaming, can be foamed by chemical or physical (N2, CO2 etc) agents.



## DATAPP-S01/S02

T2 stabilized solid PP skin layer



#### DATAPP-F01

PP with improved extensional viscosity for optimum foaming with chemical agents (Endothermic chemical foaming) and/or physical agents (nitrogen, butane, etc.).



T2 stabilized PE for internal skin, in order to prevent voids between copper and the foamed core



YAZ/94A FII/93A



YAZ/94A FII/93A TPEOH3-H

DATAPP-S01/S02

DATAPE-S01

T2 stabilized solid PE layer

T2 stabilized solid PP layer

## AUTOMOTIVE ETHERNET CABLES

The increase in software demand, interactive systems feedback, navigation, driver assistance is pushing the bandwidth requirements. In response, automotive manufacturers are adding more and more computer-based systems, applications, and connections. The response to these demands relies on the ethernet cables.

### **Applications**

Driver assistance and driver safety systems, cameras (driver assist), video (infotainment) connections, car to x-communications & autonomous driving systems.

#### Benefits & Properties

Application single and unshielded, twisted pair cable bidirectional, data transfer 100Mbps, impedance Z 100  $\pm$  10  $\Omega$ 



## Insulation Materials

- PP 01DIE (Thermoplastic)
- PP 02DIE (Thermoplastic)PP 04DIE (Thermoplastic)
- PE 01DIE (Crosslinked)
- DATAPP-S01 (using sheath and no flame retardancy required)
- DATAPE-S01 (using sheath and no flame retardancy required)

## Sheating Materials

- PPOH3-H (Thermoplastic)
- TPE0H3-H (Thermoplastic)
- PE 03DIE (Crosslinked)
- FII/93A

### Cable typical values

- $\bullet \quad \text{Temperature range: -40 °C to 125 °C} \\$
- Characteristics Impedance:  $100 \pm 10\Omega$
- Capacitance (at 1kHz): Max 105 pF/m





CAN/ETHERNET



CAN FD/ETHERNET - Shield FLEXRAY / ETHERNET - Shield

## AUTOMOTIVE DATA TRANSMISSION CABLES

With the increased in the flow of data in the modern vehicles, the data transmission cables need to be able to transmit faster signals without interference, while keeping the flexibility, flame retardancy, mechanical stability and high-frequency characteristics and are therefore suitable for data transmission of signals up to 3 GHz.

Applications: Rear view camera system, multimedia, LDVS, bus systems & probe cables.

**Benefits & Properties:** Flexibility, solid and foam dielectrics available, standard temperature range -40 up to +105°C, high mechanical strength, stable impedance.



#### Insulation Materials

- DATAPP-S01 (Solid)
- DATAPE-S01(Solid)
- DATAPP-F01 (Foamed)
- PP 01DIE (Thermoplastic)
- PP 02DIE (Thermoplastic)
- PPO4DIE (Thermoplastic)
- PE 01DIE (Crosslinked)

## **Sheating Materials**

- YAZ/94A
- TPU125HZ-85A
- TPEOH3-M
- PPOH3-M





LVDS / HSD USB / Bus Systems



# PE/PP/XLPE/TPU/TPE PVC COMPOUNDS FOR EV

Tensile strength Mpa Thermoplastic E- Beam Crosslinked Halogen free Elongation at break % Ageing conditions Halogenated Operating temp °C Sheathing Structure nsulation Hardness constant Material Density Code 150°C Solid & DATAPP-S01 0,90 64 ShD 105°C 500 2,3/<2 20 ISO14572 Foamed 240 h LV 112-1 ISO 6722 ISO14572 150°C Solid & 2,3/<2 DATAPP-F01 0,90 60 ShD | 105°C 20 500 Foamed 240 h LV 112-1 ISO 6722 ISO14572 DATAPE-S01 0,92 52 ShD 105°C Solid 2,3 13 120 240 h LV 112-1 ISO 6722 ISO14572 150°C PE 01DIE PΕ 1.34 52 ShD 125°C 12 200 Solid 2.9 240 h LV 112-1 150°C ISO 6722 29 PP 01DIF PP 1 34 60 ShD 125°C 12 ISO14572 Solid 240 h LV 112-1 150°C ISO 6722 XLPE 1,32 PFX3-M 52 ShD 125°C 12 150 Solid 3.2 ISO14572 240 h LV 112-1 150°C ISO 6722 TPE0H3-H TPE 1.36 45 ShD | 125°C 12 300 Solid 240 h LV 112-1 150°C ISO 6722 TPU125HZ-85A TPU 1,12 85 ShA 30 500 7,0 125°C Solid 240 h LV 112-1 ISO 6722 150°C ISO14572 LV 112-1 PP0H3-H PP 1.36 45 ShD 125°C 12 300 Solid 40 240 h 150°C ISO 6722 YAZ/94A PVC 1.34 48 ShD 105°C 15 Solid 5.0 ISO14572 240 h LV 112-1 150°C ISO 6722 FII/93A PVC 1,32 30 ShD 90°C 12,5 Solid 5,0 150 ISO14572 LV 112-1 240 h





5,5













COILABLE

FLEXIBLE AT

WEATHER RESISTANT



Halogen free solutions that fulfill both mechanicals, flame and processability are very challenging. High filled materials are required for high flame resistance. Some conditions during long term application require environmental stress cracking resistance. Our solutions are tested on such severe conditions of moisture, temperature and mechanical stress on low and medium voltage. Cabopol offer new CPR regulation materials for insulation and sheathing application. Cabopol also offers both copper LAN and Optical fibre solutions. High processability, flame and chemical resistance are  $now adays\ the\ main\ quests\ in\ the\ market.\ Our\ materials\ are\ designed\ upon\ customer\ both\ available\ equipments\ and\ general\ specifications.$ 





## LSZH COMPOUNDS FOR POWER WIRE & CABLE

Elongation at break % Hardness ShD/15s Sheathing Insulation strength N/mm2 Bedding Density **Tensile** Code HZ05GG 1,51 14,0 180 General purpose insulation High flexibility sheathing HZ02GQ 1,51 50 11,0 170 for LAN cables 15.5 1.49 HZ01EP 58 170 Stress Cracking High mechanical 1,48 13,0 180 52 properties Good processability 1,48 53 16,0 170 HZ02DE insulation Temperature rating 15,0 HZ01DH 1,47 53 170 90°C High flexibility sheathing 1,36 14,0 HZ02FG 43 280 and insulation Sheathing material according HZ01GS 1,30 45 13,5 350 UNE 211620 5e-type DMZ2 Sheathing material according HZ02GS 1,30 52 12,5 300 UNE 211620 5e-type DMZ2 11.0 HZ02JND 1.52 50 150 Sheathing 1.55 Insulation & sheathing 50 13.0 150 1,55 13,0 50 150 HZ01CPR Insulation 1,62 52 10,0 Bedding CPR HZ02BED 80 Bedding HZ03BED 1,68 49 130



FLAME

RETARDANT





FLEXIBLE







UV RESISTANT

## LSZH COMPOUNDS FOR **SOLAR & PHOTOVOLTAIC**

(S) Code	Density	Hardness ShD/15s	Tensile strength N/mm2	Elongation at break %	Specific Application	Standards	E- Beam Crosslinked	Peroxide Crosslinked	Silane Crosslinked	Sheathing	Insulation	Additional Features
HZ 01SO	1,46	44	12	270	E-Beam Crosslinked	EN 50618	<b>/</b>			<b>\</b>	<b>/</b>	
HZ 01ST	1,41	42	10	220	Silane Crosslinked	TÜV 2PFG1169 EN 50618			<b>\</b>	<b>\</b>	<b>/</b>	
HZ 01SP	1,48	45	15	180	CV Peroxide Crosslinked	TÜV 2PFG1169 EN 50618		<b>/</b>		<b>/</b>	<b>/</b>	













LACOFLEX TEC compounds for wire and cable are design to meet very different requirements, from Oil resistant grades for UL62 and UIC 895 and standard grades with no oil resistance up to Automotive insulation 150°C rating grades. We have developed TPE-E, TPE-O and TPE-S grades depending on requirements. This compounds can be halogen free flame retardant, Low halogen flame retardant and with no flame retardancy, depending on standard requirements and client requirement.



Cabopol have developed special TPE-E low density halogen free flame retardant grades with excellent oil resistance, high flexibility and low hardness. This special compounds have excellent chemical resistance and high temperature rating from 105 up to 150°C rating. The TPE-E compounds combine high flexibility, high cut-through resistance, high flex cycle behaviour, low temperature flexibility with good mechanical properties and chemical resistance. Cabopol TPEs can meet the client needs in terms of hardness, adjusting the hardness to client needs.



## TPE COMPOUNDS FOR FLEXIBLE WIRE & CABLE

	-	-	-	-	-	-	
Е	1	F	v	IE	21	F	
	-	-	^	"	,,	-	

(S) Code	Density	Hardness	Operating temp°C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	Class	UL94	% IOI	Specific Application	Halogen free	Halogenated	Insulation	Sheathing	Additional Features
TPE100UL-A	1,12	85 ShA	105°C	13	300	136°C 168h	UL 62	14, 15, 16	V0	29	Energy railway & charging cables	<u> </u>		<u></u>	<u></u>	<ul><li>☼ ~ ~ ☼ ¼</li><li>※ ⋈ ┆ ≅ Ex</li></ul>
TPE100HF-90A	1,03	90 ShA	105°C	10	500	136°C 168h	UL 62	14, 15, 16	VO	30	Energy & tape battery cables	<u> </u>		<u></u>	<u></u>	<ul> <li>☼</li> <li>☼</li> <li>☼</li> <li>∅</li> <li>☼</li> <li>∅</li> <li>∅</li> </ul>
TPE100NF-80A	1,10	80 ShA	105°C	13	400	136°C 168h	UL 62	14, 15, 16	НВ	23	Energy & railway	<u> </u>		<u></u>		<ul><li>☼ ~ ~ ☼ ¼</li><li>¾ ⋈ ┆ ≅ Ex</li></ul>
TPE100UL-85A	1,20	85 ShA	105°C	11	300	136°C 168h	UL 62	14, 15, 16	VO	28	Energy & tape battery cables		<u> </u>	<u></u>	<u></u>	<ul><li>☼ ~ ~ ☼ [] †</li><li>※ ☑ ☼ ⑤ Ex</li></ul>
TPO80HZ-80A	1,32	85 ShA	80°C	9	500	90°C 168h	EN50363	TI6, TI7, TM7	НВ	26	Energy & elevator cables	<u> </u>			<u></u>	<ul><li>☼ ~ ~ ☼ []<sup>+</sup></li><li>※ ☑ ☼ ⑤ Ex</li></ul>
TPE80HZ-45D	1,55	45 ShD	80°C	10	150	90°C 168h	EN50363	TI6, TI7, TM7	НВ	36	Energy & elevator cables	<u> </u>			<u></u>	③ ~ ~ ☆ ⑤ ① ↑ ※ ⑥ ☆ ⑤ Ex





















HIGH TEMP RESISTANT

©) Code	Density	Hardness	Operating temp°C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	Class	UL94	% IOT	Specific Application	Halogen free	Sheathing	Additional Features
TPU100HZ-90A	1,23	90 ShA	105°C	30	500	136°C 168 h	HD 22.10 UL 758 CSA 22.2	TMPU 50.227 Class 31	VO	24	Industrial cables Mining cables Flexible cables Charging cables	<u> </u>	<u></u>	<ul><li>★ 図 ☆ ■ Ex</li></ul>
TPU100HZ-91A	1,23	91 ShA	105°C	34	450	136°C 168 h	HD 22.10 UL 758 CSA 22.2	TMPU 50.227 Class 31	V0	24	Industrial cables Mining cables Flexible cables Charging cables	<u> </u>	<u></u>	<ul><li>№ ~ * </li><li>№ Ø </li><li>№ Ø Ex</li></ul>
TPU100HZ-92A	1,25	92 ShA	105 °C	20	400	136°C 168 h	UL 758	50.227	V0	28	Industrial cables Mining cables Flexible cables Charging cables	<u> </u>	<b>/</b>	<ul><li></li></ul>
TPU100HZ-92AF	1,26	92 ShA	105 °C	20	400	136°C 168 h	UL 758	50.227	V0	32	Industrial cables Mining cables Flexible cables Charging cables	<u> </u>	<u></u>	<ul><li>№ ~ * № ¶*</li><li>№ Ø </li><li>№ Ø Ex</li></ul>
TPU125HZ-80A	1,20	88 ShA	105 °C	28	450	136°C 168 h	HD 22.10 UL 758 CSA 22.2	TMPU 50.227 Class 31	V0	29	Industrial cables Mining cables Flexible cables Charging cables	<u> </u>	<u></u>	<ul><li>★</li><li>★</li><li>★</li><li>Ex</li></ul>
TPU90HZ-90A	1,47	93 ShA	90°C	25	400	110°C 168 h	HD 22.10 UL 758 CSA 22.2	TMPU 50.227 Class 31	V2	29	Low smoke Low toxicity	<u> </u>	<u></u>	<ul><li>Ø ~ * Ø ∮*</li><li>Ø Ø Ø Ø Ø Ex</li></ul>





























WEATHER RESISTANT HIGH TEMP. RESISTANT LOW TEMP. RESISTANT OIL RESISTANT UV RESISTANT



OIL	
RESISTAN	T

(S) Code	Density	Hardness	Operating temp. °C	Tensile strength Mpa	Elongation at break %	Ageing conditions	Standards	Class	UL94	% IOT	Halogen free	Silane Crosslinked	Insulation	Sheathing	Additional Features
TPE105LSHF-90A	1,60	85 ShA	105°C	11	200	136°C 168h	UIC 895 NEK 606	Indice B Category A, B and C	V0	40	<u></u>		<b>/</b>	<b>/</b>	
TPE105LSHF-50D	1,56	93 ShA	105°C	10	160	136°C 168h	UIC 895	Indice B	V0	36	<u></u>		<u> </u>	<u> </u>	<ul><li>☼</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li>&lt;</ul>
TPX105HZ-90A	1,52	88 ShA	105°C	12	150	136°C 168h	IEC 60092-360 UIC 895 NEK 606	SHF2 Indice B Category A, B and C	V0	36	<u></u>	<b>/</b>	<u> </u>	<u> </u>	<ul><li>☼</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li><li>∴</li>&lt;</ul>
TPX105HZ-95A	1,52	94 ShA	105°C	12	125	136°C 168h	IEC 60092-360 UIC 895 NEK 606	SHF2 Indice B Category A, B and C	V0	36	<u></u>	<u></u>	<b>\</b>	<b>\</b>	※ 図 ※ 3 Ex
TPE100NF-80A	1,10	80 ShA	105°C	13	400	136°C 168h	UL 62	14, 15, 16	НВ	23	<u></u>		<u> </u>		☆ ~ * * * * * * * * * * * * * * * * * *
TPE100UL-75A	1,15	80 ShA	105°C	10	300	136°C 168h	UL 62	14, 15, 16	V2	25			<u></u>	<u></u>	※ 図 ※ 第 Ex
TPE100UL-85A	1,20	85 ShA	105°C	11	300	136°C 168h	UL 62	14, 15, 16	V0	28			<u> </u>	<u> </u>	<ul><li>※ 図 ※ 第 Ex</li></ul>



























Polyprime compounds for power cables are prepared to respond effectively to the requirements of the industry standards. Characterized for an easy  $and\ effective\ process ability\ and\ constancy\ of\ quality.\ Securing\ a\ final\ result\ highly\ profitable\ in\ the\ relation\ quality\ /\ cost.\ Our\ range\ of\ solutions\ meet$ the requirements of: Oil resistance, hydrocarbon resistance, UV resistance, anti-termites, anti-rodents, flame retardant, low smoke emission, resistance to low temperatures, resistance to high temperatures, resistance to several adverse natural conditions & complies with all standards for PVC power cables.



# PVC COMPOUNDS FOR LOW VOLTAGE POWER

Code	Density	Hardness	Operating temp °C	Tensile strength Mpa	Elongation at break %	Specific Application	Standards	Halogenated	Sheathing	Insulation	Bedding	Additional Features
RDF/85A	1,52	88 ShA	90	14,8	150	-	ST1/TI1	<u></u>	<u></u>	<b>/</b>		
RDB/85A	1,49	88 ShA	90	15,0	250	-	ST2/TI2	<b>/</b>	<b>/</b>	<b>\</b>		
RDB/85C	1,40	88 ShA	90	10,0	150	-	ST2/TI2	<b>/</b>	<b>/</b>	<b>\</b>		
RDT/85A	1,49	87 ShA	90	15,0	175	Anti-termite	ST2/TI2	<b>/</b>	<b>/</b>	<b>\</b>		
RDT/85R	1,49	87 ShA	90	15,0	200	Antirodents	ST2/TI2	<b>/</b>	<b>/</b>	<b>\</b>		
CAI/90A	1,20	90 ShA	90	14,0	180	PVC crystal	ST2/TI2	<b>/</b>	<b>/</b>	<b>/</b>		
RGF/85K	1,40	86 ShA	90	15,0	250	LOI 24%	UL 83 – 90°c	<b>/</b>	<b>/</b>	<b>\</b>		
ICI/80C	1,40	85 ShA	75	12,5	150	LOI 25%	UL 83 - 70°C	<b>/</b>	<b>/</b>	<b>\</b>		
ICI/80T	1,48	85 ShA	75	14,0	150	LOI 32%	UL 83 – 70°c	<b>/</b>	<b>/</b>	<b>\</b>		$\odot$
RGF/85L	1,48	86 ShA	90	15,0	220	LOI 30%	UL 83 – 90°c	<b>/</b>	<b>/</b>	<b>\</b>		<b>⊗</b> <sup>©</sup>
RDC/80L	1,47	82 ShA	90	13,0	200	-	XP C32321	<b>/</b>	<b>/</b>	<b>\</b>		- <u>`</u>
ISI/90A	1,47	88 ShA	90	15,0	200	High oil resistance	UIC-895	<b>/</b>	<b>/</b>	<b>\</b>		<u>{</u> ∅}
ISSO/85A	1,49	88 ShA	90	15,0	200	LOI 29%	UIC-895 IEC 60332-C	<b>/</b>	<b>/</b>	<b>\</b>		
LOI/40F	1,55	88 ShA	90	13,0	170	LOI 36%	ST2/TI2	Low	<b>/</b>	<b>\</b>		6 8°
ICE/87A	1,55	88 ShA	90	13,0	170	LOI 30%	IEC 60332-C	Low	<b>/</b>	<b>\</b>		
ICI/83A	1,55	88 ShA	90	15,0	175	LOI 36%	ST2/TI2	Low	<b>/</b>	<b>\</b>		& & **
AAB/89A	1,45	90 ShA	105	15,0	250	-	TI3 HD 21.1	<b>/</b>	<b>/</b>	<b>\</b>		-\(\dagger\)
AAB/75A	1,45	77 ShA	105	14,5	200	-	TM3 HD 21.1	<b>/</b>	<b>/</b>	<b>/</b>		-×-11+-*
REC/80A	1,45	82 ShA	80	15,0	200	-	TM5 - HD21.1	<b>/</b>	<b>/</b>	<b>/</b>		* [
RGB/80A	1,49	80 ShA	70	12,5	200	-	TM1/TM2	<b>/</b>	<b>/</b>			_
RGB/79A	1,40	77 ShA	80	14,0	300	-	TM1/TM2	<b>/</b>	<b>/</b>			
EEI/75A	1,60	80 ShA	70	5,0	150	-	-	<b>/</b>	<b>/</b>			~
EEI/71A	1,70	80 ShA	90	6,0	150	-	BS 7655 - 4.2 type 6	<b>/</b>	<b>/</b>			
EOC/85A	1,25	85 ShA	90	-	-	-	-	<b>/</b>			<b>/</b>	
BEP 2000	1,90	85 ShA	90	2,5	150	High density bedding	-	<b>\</b>			<b>/</b>	
EOA/85A	1,80	85 ShA	90	4,0	50	-	-	<b>/</b>			<b>/</b>	













HIGH TEMP.









With emerging 5G wireless infrastructures and growing antenna market by hybrid cables, Fiber Optic Networks is one of the hottest topics across the globe and for that Cabopol has developed optic fiber solutions, these are halogen free low smoke solutions for dry and gel OF constructions. Customers are very satisfied with high speed up to 1000m/min achieved as example with 12 bundle fibers construction. Solutions are available for tight buffer, high gel resistance buffer, jackets UV, stress cracking resistance and CPR meeting solution Cca.



## LSZH COMPOUNDS FOR OPTICAL FIBRE CABLES

Code	Density	Hardness ShD/15s	Tensile strength N/mm2	Elongation at break %	(%)	CPR Class	Specific Application	Sheathing	Insulation	Additional Features
01OFP	1.49	50	>10.0	>150	33	B2ca	Good flame retardancy & char formation, low dripping & low heat release	<b>/</b>		$\bigcirc$
HZ05GGC	1.57	50	10.0	>150	41	Cca	Good flame retardancy & char formation	<b>/</b>		$\bigcirc$
HZ02GQ	1.49	50	12,0	165	37	Dca	Easy processing	<b>/</b>		
010FG	1.44	56	14.0	170	33	Cca	MDH Filler & good char formation	<b>/</b>	<b>/</b>	Å Å
HZ01TR/ 8000	1.10	56	20.0	600	28	Dca	Tracking resistance & ADSS cable	<b>/</b>		<b>©</b>
010F0	1.42	57	15.0	190	34	Cca	Tight buffer, micromodules, gel resistant & high speed processability		<b>/</b>	











ENERGY

LSZH COMPOUNDS FOR **TELECOMMUNICATIONS** 

Elongation at break % Hardness ShD/15s Bedding Insulation strength N/mm2 Density Code 1,51 HZ05GG 14,0 180 General purpose insulation High flexibility sheathing 1 49 12.0 HZ02GQ 50 165 for LAN cables 15.5 170 HZ01EP 1 49 58 Stress Cracking High mechanical HZ02EP 1,48 52 13,0 180 properties Good processability 16,0 HZ02DE 1,48 53 170 insulation 1,52 11,0 HZ02JND 150 Sheathing HZ05GGC 1,57 50 10,0 150 Insulation & sheathing HZ01CPR 1,55 50 13,0 150 Insulation 10,0 Bedding CPR HZ02BED 1,62 52 80











# TIGHT BUFFERED FIBRE CABLES

One of the potential problems of tight buffering is post extrusion shrinkage of the buffer material. This shrinkage puts strain on the fibre and causes increased signal attenuation. HFFR compounds are inherently low shrink due to their high mineral filler content – a value of 0.3 % is typical on compound aged for 1 hour at 80°C when tested to the method in IEC 60811-1-3. The tight buffered fibres are generally subjected a variety of tests, including thermal cycling, before being used to make optical fibre cables.



#### Specifications

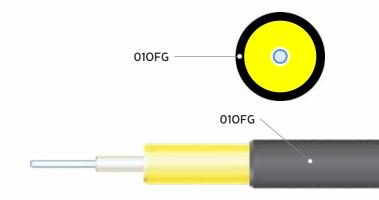
- Zero halogen, no corrosive gases IEC, EN 60754-1/-2 VDE 0482-754-1/-2
- Flame propagation IEC, EN 60332-1-2 VDE 0482-332-1-2
- Smoke density IEC, EN 61034-1/-2 VDE 0482-1034-1/-2

### **Applications**

- Distribution systems cable
- · Indoor Data Center connections cable
- Indoor cabling for fibre to the Home (FTTH), LAN applications
- · Suitable for laying in cable trays, ducts and vertical shafts
- Improved gel resistance

#### Typical construction

- Ø nominal [mm]:1.8/0.9/0.5
- Central tube 900 µm or 250 µm optical fibres (12-24)
- · LSOH with low coefficient of friction



Jelly

· White central tube & outer jacket: LFSH 010FG



## Specifications

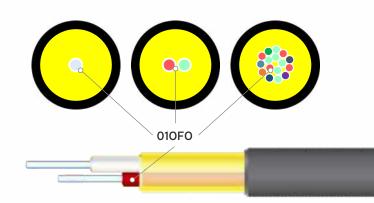
- Zero halogen, no corrosive gases IEC, EN 60754-1/-2 VDE 0482-754-1/-2
- Flame propagation IEC, EN 60332-1-2 VDE 0482-332-1-2
- Smoke density IEC, EN 61034-1/-2 VDE 0482-1034-1/-2

#### **Applications**

- Distribution systems cable
- · Indoor Data Center connections cable
- · Indoor cabling for fibre to the Home (FTTH), LAN applications
- · Suitable for laying in cable trays, ducts and vertical shafts

## Typical construction

- Ø nominal [mm]:1.8/0.9/0.5
- Central tube 900 µm or 250 µm optical fibres (12-24)
- · LSOH with low coefficient of friction



1 or more optical fibre

Jelly

· White central tube & outer jacket: LFSH 010F0

## FIRE RESISTANT OPTICAL CABLES

A new family of optical fire-resistant cables has been installed, used to provide the necessary levels of safety in critical environments as public buildings, subways and also in industrial areas. These new cables maintain their optical transmission characteristics with very limited change in attenuation for a long time in compliance with international standards. These innovative cable design, using special ceramifiable compound and appropriate flame shields allow to control the heat release and to guarantee the right level of mechanical protection for the optical fibres during the burning phase limiting in this way any variation in attenuations and avoiding transmission interruptions.



### Specifications

- Zero halogen, no corrosive gases IEC, EN 60754-1/-2 VDE 0482-754-1/-2
- Flame propagation IEC, EN 60332-1-2 VDE 0482-332-1-2
- Smoke density IEC, EN 61034-1/-2 VDE 0482-1034-1/-2

#### Euroclass

- · Up to 24 fibres, Euroclass B2ca.
- · Non-metallic fibre optic outdoor & indoor cable with one central dry loose tube.
- · High crush resistance for high transmission reliability.
- Easy to handle due to cable construction with dry interstices & gel-free loose tubes.
- · Rodent protection version if needed, flame retardant, longitudinally watertight.

### Typical construction

- ≤24 fibres
- · Loose tube
- · Glass armour
- Ripcord
- · Flame retardant halogen-free FR/LSOH sheath

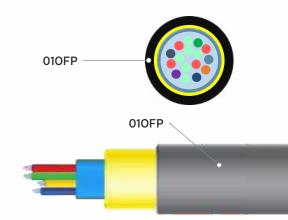


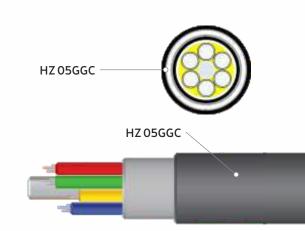
### Specifications

- Zero halogen, no corrosive gases IEC, EN 60754-1/-2 VDE 0482-754-1/-2
- Flame propagation IEC, EN 60332-1-2 VDE 0482-332-1-2
- Smoke density IEC, EN 61034-1/-2 VDE 0482-1034-1/-2

#### **Euroclass**

- Indoor and universal cables with appropriate rating according to European Construction Product Directive (CPR): Euroclass Dca to B2ca.
- Central tube construction up to 24 fibres.
- Flexible micro-bundles construction up to 96 fibres. Extensive range of indoor cables with easy stripability
- Indoor riser cables up to 144 fibres .
- · Indoor drop cables.





## FLAME RETARDANT LAN CABLES

The design of communication cables requires that the best solution be found for several competing parameters and jacket material has a great impact on this task. The most common materials used on the jacket of a UTP LAN are PVC and HFFR widely used due to availability, cost, good processability, flame retardant characteristics, in addition to the interesting electrical and mechanical properties for the application. The choice of jacketing material of U/UTP category cables will depend on flame safety requirement, cable design and/or requirement of finished cable.

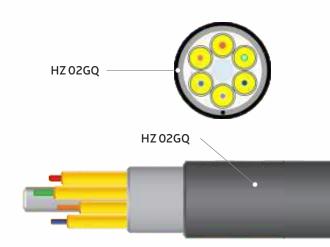


#### Specifications

- Zero halogen, no corrosive gases IEC, EN 60754-1/-2 VDE 0482-754-1/-2
- Flame propagation IEC, EN 60332-1-2 VDE 0482-332-1-2
- Smoke density IEC, EN 61034-1/-2 VDE 0482-1034-1/-2

#### Characteristics

- Metal-free, dry interstices, gel-free loose tube, rodent protection, flame retardant.
- · High crush resistance for high transmission reliability.
- Easy to handle due to cable construction with dry interstices and gel-free loose tubes.
- · Longitudinal water-tightness by swelling yarn.
- · Non-metallic rodent protection.
- · Flame retardant halogen-free FR/LSOH sheath.
- · LAN backbone, access and riser zone.
- Connection cable between the building distributors and/or floor distributors up to 24 fibres, Euroclass Dca



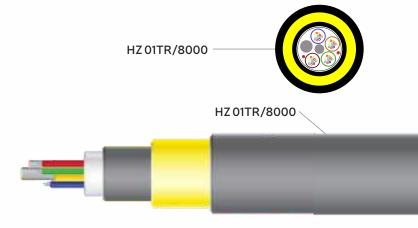
ADSS CABLES

ADSS cable is an Optical cable with excellent mechanical and environmental performance, strong self-supporting application function, multipurpose and wide application range. It has a large market demand. It is mainly used for communication area of overhead high voltage transmission system. The ability to withstand extreme bad weather (gale, ice, etc.) is strong. Structure is stranded loose tube, non-metallic central strength (generally FRP), double PE and Tracking Resistant sheaths with peripheral aramid yarn. In order to deal with the Tracking leak, the outer Sheathing of ADSS cable are designed with UV resistant and good electrical properties, improved when compared with other typical Optical Fiber Cables.



#### Characteristics

- · Tracking Resistance ADSS cable
- · Aerial cables
- ADSS Complete range up to 144 fibres armoured cables in single or dual sheath.
- · Fully dielectric construction





Polyprime PVC compounds for telecommunications gives a surface finish of excellence to the wire and meets all the requirements of the standards in this sector with a processing speed over 1200 meters / minute. Compounds of great technical accuracy and purity to be able to comply with high electrical resistance, UV resistance and mechanical resistance in ultrafine thickness wires.



## PVC COMPOUNDS FOR TELECOMMUNICATIONS

© Code	Density	Hardness	Operating temp °C	Tensile strength Mpa	Elongation at break %	Specific Application	Standards	Halogenated	Sheathing	Insulation	Additional Features
SOM/12A	1,33	90 ShA	90	21,0	250	High insulation resistance		<b>/</b>	<b>/</b>	<b>/</b>	
CBB/18A	1,30	95 ShA	90	31,0	380	Ultrathin cable sections	VDE 0207 YI-3	<b>/</b>	<b>/</b>	<b>/</b>	
RDK/90A	1,30	90 ShA	90	17,5	200	High mechanical properties		<b>/</b>	<b>/</b>	<b>/</b>	
BIC/90A	1,28	90 ShA	90	18,0	250	High UV resistance	VDE 0207 YI-3	<u></u>	<b>/</b>	<b>/</b>	-\\



RESISTANT

