Belden equivalents

TITLE:
OFB Overall Foil & Braid Screened Pairs External
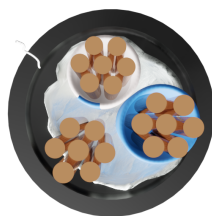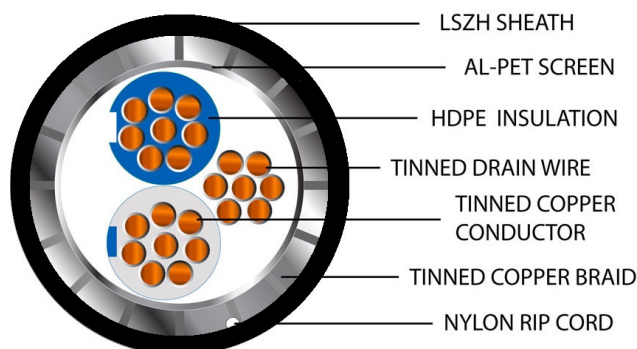
CODE:
SFX/OFB1-PE-BLK-1

DESCRIPTION:
1m (per metre) OFB1 1pr 24AWG Overall Foil and Braid Screen 600V Black PE (9841)

SUPPLIED AS:
Per 1m Lengths

- Suitable for RS485 data connections
- Provides interference free and high speed data transmission
- Polyethylene plastic is excellent for use externally above ground or below ground inside ducting
- A quality alternative to genuine Belden cable
- UV resistant

- LSZH SHEATH
- AL-PET SCREEN
- HDPE INSULATION
- TINNED DRAIN WIRE
- TINNED COPPER CONDUCTOR
- TINNED COPPER BRAID
- NYLON RIP CORD

FLAME-FLEX® | Drum-Roll | LUCKINS™ | epim | EDA ELECTRICAL DISTRIBUTORS' ASSOCIATION | BASEC | KNX MEMBER | cai | CPR | UK CA

Product Specification

25-YEAR WARRANTY

Cable Construction

Cable Construction	1 Pair
CPR	Fca
Conductor	Tinned Copper
Conductor Diameter (mm)	0.19 ±0.008 x 8(0.20mm²)
Stranded Diameter (mm)	0.51
Overall Diameter (mm)	5.90 ±0.20

Insulation

Insulation	HDPE
Insulation Colour	White/Blue,Blue/White
Insulation Resistance @20°C	>200MO/km
Insulation Thickness (mm)	0.55

Outer/Jacket Specification

Jacket	PE
Overall Colour	Black
Overall Diameter (mm)	5.90 ±0.20
Jacket Colour	Black RAL 9005
Jacket Thickness (mm)	0.80
Nylon Rip-Cord	150D

Electrical Characteristics

Insulation Resistance @20°C	>200MO/km
Max Conductor DC resistance @ 20°C	<83O/km
Rated Temperature (°C)	-20°C to 80°C
Rated Voltage (V)	600V

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MORE INFORMATION:

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA	
	FIRE RATING 🔥	SFX COMMENT
Reaction to Fire BS EN ISO 1716		
Aca	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet Aca, so they should only be specified with extreme caution.
Reaction to Fire BS EN 50399		
B1ca	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.
B2ca	Combustible, low flame spread & heat release contribution to the fire	Similar to Class Cca, although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.
Cca	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class Dca, this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving.
Dca	Combustible, moderate flame spread & heat release	This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured.
Reaction to Fire BS EN 60332-1-2		
Eca	Combustible, limited fire spread of less than 425mm	A basic test for vertical flame propagation for a single insulated wire or cable using a 1 KW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke.
Fca	Combustible, fire spread of more than 425mm	Cables classified to Class Fca may have high levels of flammability due to the materials they are made of. This does not mean that the cable cannot be used, it is more likely to be used external.

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SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca

(S) SMOKE PRODUCTION ☁	(D) FLAMING DROPLETS 🔥💧	(A) SMOKE ACIDITY 😷
BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
s1a: s1 + transmittance >=80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, times for 1200 seconds	a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3)
s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)		
s1: Low production of slow propagation of smoke	d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds	a2: low acidity (conductivity <10 µS/mm & pH >4.3)
s2: Intermediate production & propagation of smoke		
s3: None of the above	d2: None of the above	d2: None of the above

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SFX®

The Trusted Cable Brand

Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

OUR OPERATING TEMPERATURE RANGE GUIDE

200°	SILICONE
90°	HRPVC
80°	PE & PVC
70°	LSZH
0°	
-20°	PE,PVC & HRPVC
-40°	LSZH
-60°	SILICONE

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