

## TECHNICAL DATASHEET & SPECIFICATIONS

2021-241-DM

**Type:** FIRE RESISTANT CABLE - JE-H(St)H...Bd FE 180 - PH120 E30- E90



### APPLICATION

Fire resistant cable specially designed for place where electro-magnetic interference exists, to be installed in closed areas where people are densely populated. Used for Intercommunication systems in buildings, Instrumentation and control engineering; Industrial; Computers and office machines

### CONSTRUCTION PARAMETERS

<b>Conductor:</b>	0,8 mm: Class 1 bare copper according to IEC 60228; EN 60228. 1,0 mm <sup>2</sup> : Class 5 bare copper according to IEC 60228; EN 60228 1,5 mm <sup>2</sup> : Class 5 bare copper according to IEC 60228; EN 60228
<b>Insulation:</b>	Special silicone compound
<b>Identification:</b>	Blue – Red (1st Pair); Grey - Yellow (2nd Pair); Green - Brown (3d Pair); White – Black (4th pair) According to VDE 0815. 1,0 mm <sup>2</sup> : Black and Red (1 Pair): Black and Red numbered (>1 Pair) 1,5 mm <sup>2</sup> : Black and Red (1 Pair): Black and Red numbered (>1 Pair)
<b>Assembly:</b>	Pairwise (1 pair), Starquad (2 pairs), Pair in layers (4 Pairs),
<b>Wrapping:</b>	PET tape + fibre Glass tape
<b>Shielding:</b>	Tinned copper drain wire + aluminum/pet tape
<b>Outer sheath:</b>	HFFR compound
<b>Color:</b>	Orange

### MECANICAL CHARACERISTICS

<b>Working temperature :</b>	-30°C to +70°C.
<b>Bending Radius:</b>	10 x Diameter.

*Information and specifications described herein are confidential. Information and specifications described herein are subject to change by Condenerg without previous notice.*



## ELECTRICAL CHARACTERISTICS

<b>Operating voltage:</b>	300 V.
<b>Test voltage:</b>	0,8mm - 800V 1mm <sup>2</sup> - 1000V 1,5mm <sup>2</sup> - 1000V
<b>Insulation resistance:</b>	100 MΩ/km
<b>Loop resistance:</b>	73.2 Ω/km
<b>Mutual capacity:</b>	100 nF/km

## NORMS & STANDARDS

TEST	STANDARD
Flame Retardant	UNE-EN 60332-1-2 / IEC 60332-1/ VDE 0482-332-1-2
Smoke Emission	UNE-EN 61034-2 / IEC 61034-2/ VDE 0482-1034-2
Halogen Free	UNE-EN 60754-1 / IEC 60754-1/ VDE 0482-754-1
Corrosive Gas	UNE-EN 60754-2 / IEC 60754-2/ VDE 0482-754-2
Continuity Test	FE 180 according to IEC 60331-23
Circuit Integrity with mechanical shock	VDE 0482-200/ EN 50200
Cable system circuit integrity	DIN 4102-12
Reaction to fire	Cca, s1 d0 according to EN 50575

## PHYSICAL CHARACTERISTICS

Number of pairs	Diameter (mm)	Outer nominal diameter (mm)	Weight (Kg/Km)
1	0.8	5.75	36
2 (quad)	0.8	6.65	56
4	0.8	10.1	101
1	1.5mm <sup>2</sup>	8.6	84

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