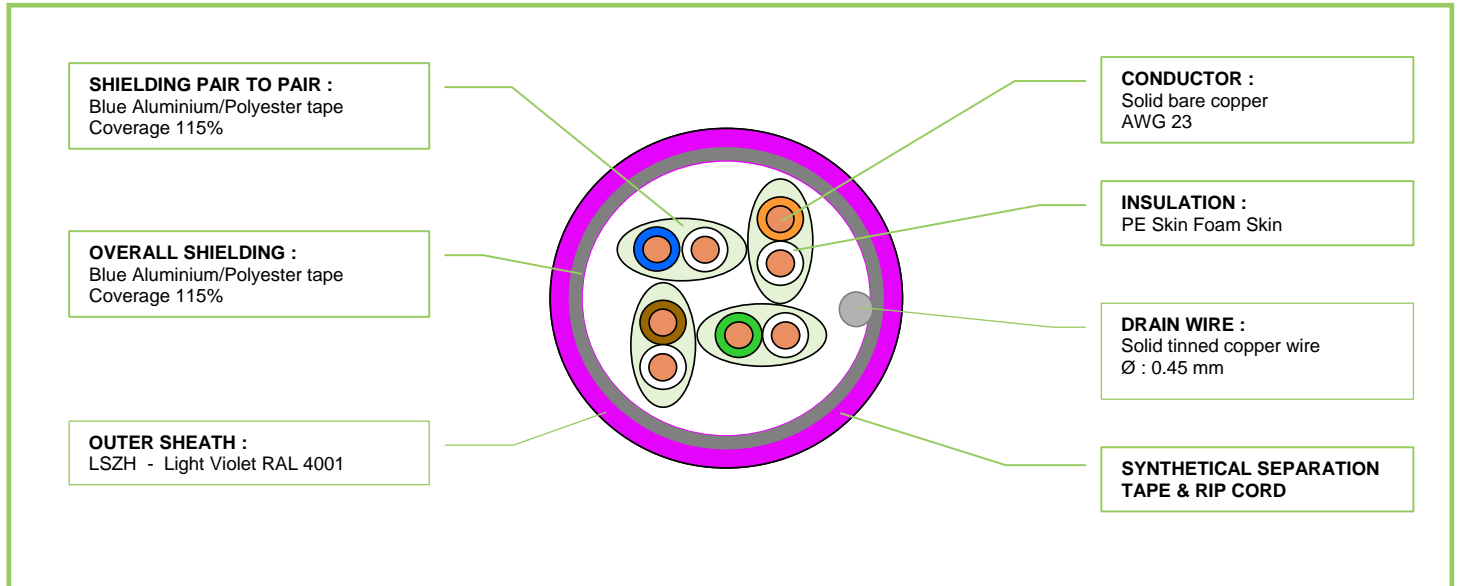


# REF : F555-xSH

100 Ω PIMF F/FTP – compliant with 10G Ethernet –  
Tested up to 555 MHz – Low Smoke Zero Halogen

Ed. 1.0



## PRODUCTS INFORMATIONS

### Applications

PIMF (Pair In Metallic foil) Data cable for use in Full Shielded structured cabling system, comply with all the performance requirements for current very high speed applications and future very high bit rate network systems.

This cable exceeds all the standard specifications. Excellent high-speed and error free transmission up to 555 MHz.

This cable is used for transmission of digital and analogue voice, Data and video signals.

It can transmit :

- ISDN - RNIS
- TOKEN RING 4/16 Mbits
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622 Mbits/s & 1,2Gbits
- ETHERNET 10 Base T
- ETHERNET 100 Base Tx, 100 Base T4
- ETHERNET 1000 Base T – GIGABIT Ethernet
- IEEE 802.3 af – PoE (Power Over Ethernet)
- 10 GIGABIT ETHERNET (Up to 100 m)

### Standards / Performances

Performances of F555-xSH cable comply with the limits defined by the following standards:

CABLE	SYSTEM
DRAFT EN 50288-10-1 (CAT6A) DRAFT IEC 61156-5 ed.2.0 (CAT6A) DRAFT 5.0 EIA/TIA 568-B.2-10 CAT6A	3rd PdTR ISO/IEC 11801 ed 2.1 Classe Ea DRAFT 5.0 EIA/TIA 568-B.2-10 CAT6A

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## Electrical properties

Max. Linear Resistance **95 Ω / km**  
Mutual capacity (nom.) **45 pF / m**  
Characteristic impedance :  
( from 1 to 100 MHz ) **100 ± 15 Ω**  
( from 100 to 250 MHz ) **100 ± 20 Ω**  
( from 250 to 500 MHz ) **100 ± 25 Ω**  
Nominal velocity propagation **79 %**

## Characteristics



Fire behaviour : IEC 60332-1 / NF C 32070 C2



Operating temperature : - 20° C / + 70°C



Minimum bending radius : 8 x outer diameter





Conform to RoHS directive

## Values

Measurments (MHz)	ATTE NUATION (dB/100 m)		NEXT (dB/100 m)		ACR (dB/100 m)		PS NEXT (dB/100 m)		ELFEXT (dB/100 m)		PSELFEXT (dB/100 m)		RETURN LOSS (dB/100 m)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
1	2.0	<b>1.8</b>	75	<b>90</b>	73.0	<b>83.2</b>	72	<b>87</b>	67.8	<b>87</b>	64.8	<b>84</b>	20.0	<b>36</b>
4	3.7	<b>2.9</b>	65.3	<b>88</b>	61.6	<b>79.4</b>	62.3	<b>79</b>	55.8	<b>86</b>	52.8	<b>83</b>	23.0	<b>35</b>
10	5.8	<b>4.6</b>	59.3	<b>86</b>	53.5	<b>79.2</b>	56.3	<b>83</b>	47.8	<b>83</b>	44.8	<b>80</b>	25.0	<b>35</b>
16	7.4	<b>6.1</b>	56.2	<b>85</b>	48.8	<b>76.6</b>	53.2	<b>82</b>	43.7	<b>82</b>	40.7	<b>79</b>	25.0	<b>32.5</b>
25	9.2	<b>8.6</b>	53.3	<b>84</b>	44.01	<b>81.8</b>	50.3	<b>81</b>	39.8	<b>77</b>	36.8	<b>74</b>	24.5	<b>35</b>
31.25	10.4	<b>9.1</b>	51.9	<b>83</b>	41.5	<b>69.6</b>	48.9	<b>80</b>	37.9	<b>72</b>	34.9	<b>69</b>	23.8	<b>34</b>
100	19	<b>17.3</b>	44.3	<b>80</b>	25.3	<b>60.2</b>	41.3	<b>77</b>	27.8	<b>64</b>	24.8	<b>61</b>	20.1	<b>33</b>
200	27.5	<b>25.5</b>	39.8	<b>78</b>	12.3	<b>48.5</b>	36.8	<b>75</b>	21.8	<b>55</b>	18.8	<b>52</b>	18	<b>32</b>
250	31	<b>30.5</b>	38.3	<b>75</b>	7.3	<b>43.3</b>	35.3	<b>72</b>	19.8	<b>49</b>	16.8	<b>46</b>	17.3	<b>31</b>
300	34.2	<b>33.6</b>	37.1	<b>74</b>	-	-	34.1	<b>71</b>	19.8	<b>47</b>	16.8	<b>44</b>	17.3	<b>28</b>
400	40.0	<b>38.0</b>	35.3	<b>72</b>	-	-	32.3	<b>69</b>	19.8	<b>46</b>	16.8	<b>43</b>	17.3	<b>24</b>
500	45.3	<b>42.5</b>	33.8	<b>72</b>	-	-	30.8	<b>69</b>	19.8	<b>46</b>	16.8	<b>43</b>	17.3	<b>22</b>

Standard: Values from IEC 61156-5 & EN50288 - \* Extrapolated values from current DRAFT 568-B.2-10  
The installation & environmental requirements can modify the values above.  
Multimedia Connect reserves the right to modify the present characteristics without preliminary notification

## Products references

	PAIRS	[X]xAWG	mm+/-10% ext.	Kg/Km IMI	
F555-4SH	4	23	7.4	58	T500 M - T1000 M
F555-8SH	2x4	23	7.4 x 14.8	116	T500 M - T1000 M